Industrial Diamond Review

Index January-December 1969

Authors' Index	3
Miscellaneous Articles	4
Name Index	4
Trade Name and Company Index	7
Subject Index	10

Industrial Diamond Review

VOLUME 29 JANUARY to DECEMBER 1969 Nos. 338 to 349

Key to page numbers

No 338	January	pp 1- 31	No. 342	May	pp 181-210	No. 346	September	pp 353-379
No 339	February	pp 53- 76	No. 343	June	pp 225-251	No. 347	October	pp 397-418
No. 340	March	pp 93-120	No. 344	July	pp 265-296	No. 348	November	pp 439-463
No. 341	April	pp 137-164	No. 345	August	pp 309-333	No. 349	December	pp 481-507

AUTHORS' INDEX

B

Bassols, C.
The Sagrada Familia Temple rises faster, 483

Békés, J. *see* **Pálka, V., Békés J., Bokii, G. B., Volkov, A. I.**
Possible mechanisms for the formation of synthetic diamond, 376

Büttner, A., Lindenbeck, D. A.
The electrolytic dressing of diamond wheels for use in steel grinding, 450

C

Chalkley, J. R.
The mechanical contribution to electrolytic grinding, 188

Copeman, R., Ford, I.
Geotechnical aspects of machining natural stones with diamonds, 320

D

Daniel, P.
Keeping their feet dry at Westminster, 54
New bond boost efficiency in dry tool and cutter grinding, 504

Daout, M.
Diamond in the manufacture of of watch jewels, 19

Deryagin, B. V. Fedoseev, D. V., Lukyanovich, V. M., Spitsyn, B. V., Ryabov, V. A., Laventev, A. V.
Diamond whiskers, 70

Dolev, D. *see* **Yarnitsky, Y., Dolev, D.**

F

Fedoseev, D. V., *see* **Deryagin, B. V., Fedoseev, D. V., Lukyanovich, V. M., Spitsyn, B. V., Ryabov, V. A., Lavrentev, A. V.**

Ford, I. *see* **Copeman, R., Ford, I.**

G

Gertsch, F.
Diamond in the manufacture of synthetic ruby and sapphire bearing stones, 12

Grogan, A. F. *see* **Keen, D., Grogan, A. F.**

H

Herbert, S.
Industrial diamonds come to the aid of an ancient monument, 440

Hervo, P.
Diamond wires machine quartz tubes for lasers, 234
Christensen demonstration at Orly, 276

Hinshaw, M. W.
Test procedures for evaluating diamond circular saw blades cutting non-metallic materials, 107

Hoffman, A. *see* **Yarnitsky, Y., Hoffman, A.**

Hughes, F.
Grinding various materials at De Beers Diamond Abrasive Technology Centre, 270

Hush, J. S.
Diamonds on the Broads, 2
Cutting costs in the production of hand-built cars, 74
Tubewells in Pakistan, 94
Diffraction gratings — made in Britain, 226
From discs to tape and back again, 310
Diamond helps to identify other gem stones, 326
Honing to micron tolerances, 398
Diamond tools + stone production line = efficiency, 444

K

Keen, D., Grogan, A. F.
Wear of single point diamond tools in the machining of aluminium/silicon alloy pistons—a preliminary report, 278

Kelly, J. B.
An improved method of diamond core drilling automotive glass, 203

L

Lavrentev, A. V. *see* **Deryagin, B. V., Fedoseev, D. V., Lukyanovich, V. M., Spitsyn, B. V., Ryabov, V. A., Lavrentev, A. V.**

Lindenbeck, D. A. *see* **Büttner, A., Lindenbeck, D. A.**

Lukyanovich, V. M. *see* **Deryagin, B. V., Fedoseev, D. V., Lukyanovich, V. M., Spitsyn, B. V., Ryabov, V. A., Lavrentev, A. V.**

M

Marsden, P.
Doubling the output of thin rock sections, 182

Mellgren, K.-E.
Removing tram rails from the streets of Stockholm, 197

Minten, F.
Sweden's civil engineers turn to diamond, 367

N

Naville, R.
The cutting of gears and optical polygons with diamond fly-cutters, 67

P

Pálka, V., Békés, J.
Quality and life of P20 grade sintered carbide tool edges after electrolytic and mechanical diamond grinding, 361

Perrett, C.
New developments in surface set tooling in the stone industry, 236

Petrook, C.
Diamond tooling for the watch and jewellery industries, 354

Piquer, J. S.
Diamonds aid construction of a Spanish motorway, 416

R

Raal, F. A.
De Beers research serves the diamond industry, 98

Rainier, D. M.
The production and quality control of fine diamond powders, 60

Ryabov, V. A. *see* **Deryagin, B. V., Fedoseev, D. V., Lukyanovich, V. M., Spitsyn, B. V., Ryabov, V. A., Lavrentev, V. A.**

S

Seal, M.
A review of methods of bonding or making electrical contacts to diamond, 408

Selby, J. S.
Diamond honing development pays off at Perkins, 486

Spitsyn, B. V. *see* **Deryagin, B. V., Fedoseev, D. V., Lukyanovich, V. M., Spitsyn, B. V., Ryabov, V. A., Lavrentev, A. V.**

Stettler, E.
Diamond in modern 'préparages' production, 6

Swan, R. J.
Composite lapping materials and diamond compounds, 491

T

Teather, H. G.
Modern methods for the production of shaped diamond tools, 56

V

Vadilo, P. S.
Sculpture on diamond—its origin and significance, 328

Verbeeth, J.
Diamond drilling helps restore efficiency of a Dutch sewage plant, 28
Drawing wire for guitar strings, 196
Making leak-proof fume cupboards out of hard and abrasive materials, 458

Volkov, A. I. *see* **Bokii, G. B., Volkov, A. I.**

Y

Yarnitsky, Y., Dolev, D.
Porosity—the third phase in grinding wheels, 414

Yarnitsky, Y., Hoffman, A.
The behaviour of diamond powder on a diamond polishing scaife, 462

MISCELLANEOUS ARTICLES

American supplier solves development problem for brass rod, 331
American wheelmaker demonstrates steel grinding breakthrough, 318
Armature output soars with new diamond equipped lathe, 206
Bearings for the power unit, 151
Book reviews, 26, 76, 120, 210, 242, 296, 333, 418, 461
Concorde, an international thoroughbred, a masterpiece of engineering, 138
Cutting the cost of producing rectifiers, 154
De Beers Grit Distributors Seminar '69, 287
DEMOS—or how to grind steel with diamond, 266
Diamacier 69—Paris, 406
Diamond compounds shape air bearing components, 456
Diamond dies draw the fine platinum wire used in nitric acid production, 286
Diamond planing removes failed surface treatment at RAF Lakenheath, 277
Diamond Research Laboratory dynamometer to uncover grinding force secrets, 401
Diamond tools in the building industry —The Hamburg Seminar, 72
Diamond tools in the stone industry—The London Seminar, 243
Diamonds—Key to Industrial Progress: an American Conference, 370
Diamonds maintain tight tolerances in output of intricate glass components, 24
Facets of the Industry, 27, 115, 295, 375, 460, 500
Generally speaking, 1, 53, 93, 137, 181, 225, 265, 309, 353, 397, 439, 481
Groovy things happen on California freeways . . . and on French autoroutes, 502, 503
Hard Facts, 23, 71, 118, 119, 202, 250, 251, 294, 332, 374, 417, 455, 501
A high surface finish is needed to keep ceramic shaft seals airtight, 413
Holland's biggest ever industrial diamond seminar, 200
How diamond helped to build Concorde, 164
IDA meets in Las Vegas, 186
Installing the world's longest underground TV cable system, 30
Keeping an eye on the temperature, 162
Kemet laps and diamond compound overcome copper lapping problem for Ferranti, 317
Machining an unusual ceramic, 116
Model making—the shape of things to come, 143
New York drillers take care of their diamond bits, 290
Olympus 593—power unit for the Concorde, 148
One-day Glass Machining Seminar in Mainz, 378
Pipework made to measure, 157
Reliable and accurate control, 159
Russian research aims at lower diamond consumption in the dry grinding of carbides, 246
Slicing and dicing ultra-pure silicon into tiny cubes for a semiconductor device, 208
Ten-year old steel grinding problem solved with new diamond wheel, 230
Ultrasonic machining with whole stone diamonds, 314
Wind tunnel testing at Farnborough, 144

NAME INDEX

A
ASA *see* **American Standards Association**
ASTE *see* **American Society of Tool Engineers**
ASTM *see* **American Society for Testing Materials**
ASTME *see* **American Society of Tool & Manufacturing Engineers**
Abrasive Engineering, 265
Adamant Research Laboratory, 119
Advanced Technology Committee, Industrial Diamond Association of America Inc, 76, 370
Akeson, A. C., 373
Akroyd, D. G., 287, 289
Alcock, Bob, 1, 53, 93, 137, 181, 225, 309, 353, 397, 439
American Society for Testing Materials (ASTM), 60, 294
American Society of Tool Engineers (ASTE), 412
American Society of Tool & Manufacturing Engineers (ASTME), 210, 309, 318, 370, 491
American Standards Association (ASA), 60
Amrhein, H. G., 269, 371, 372, 451
Ancient Monuments Act, 441
Anderson, B. W., 120, 327
Andriesse, D. J., 288
Anema, A. F., 201
Antiquities Section, Ministry of Public Buildings & Works, 443
Applied Research Section, Diamond Research Laboratory, 101, 401
Arnold, H. W., 371
Atkinson, R., 23
Avery, J. R., 417
Azaroff, L. V., 333

B
Bakul, V. N., 247, 249, 439
Bancroft, R. A., 373
Barfoot, C. W., 441
Bartell, L., 412
Basic Research Section, Diamond Research Laboratory, 101
Bassols, C., 483
Bateson, B. A., 268, 417
Battelle Memorial Institute, 181, 309
BBC, 501
Beard, R., 502
Becker-Barbrock, U., 195, 366
Békés, J., 361, 366
Bender, H., 412
Bennett, O. B., 243, 287
Bentley, W. A., 330
Benz, E., 412
Bertrand, Prof., 326
Bertrand, R., 406
Bideaux, F. R. C., 244, 245
Birmingham University, 244, 320
Blainey, A., 412
Blanch, Don Francisco de P. Cadoner, 484, 485
Boehm, H. P., 409, 412
Bokii, G. B., 376
Bokuchava, G. V., 26
Bombay Diamond Merchants' Association, 251
Bondarev, Ye. K., 249
Born, W. E., 373
Borse, D., 373
Bouygues, J., 234, 235
Bovenkerk, H. P., 377, 412
Bowden, F. P., 412
Bowman, R. E., 412
Boyle, G., 289
Bragg, Sir Lawrence, 333, 455
Brine, P. J., 118
Bristol University, 320
Geology Department, 320
British Scientific Instruments Research Association, 374
British Standards Institution, 23, 280, 285
British Stone Federation, 245
British Technology Index, 23
Brno Trade Fair, 71
Brooks, R. O. R., 294
Brown, E. T. S., 71, 119, 266, 288, 289
Brown, Lord, 71
Brunswick Technical University, 379
Finishing Technology Institute, 378
Brustlin, H. G., 251
Bruton, E. M., 210, 296
Bryan, J., 373
Büttner, A., 450, 454
Bugaev, A. A., 247
Bundy, F. P., 377
Bureau of Materials, 291, 292, 293
Bureau of Soil Mechanics, 290, 291, 292, 293
Burgess, 444
Burls, J., 269, 289
Busch, D. M., 373, 379

C
CIRP Congress, London, 67
California University, Lawrence Radiation Laboratory, 373
Campbell, N. A. D., 288
Case Western Reserve University, 250
Chadwin, B. D., 229
Chalkley, J. R., 76, 188, 195, 210
Chamberlain, R. I., 294
Christensen, F. L., 332
Clark, W., 373

Clarke, F. W., 76
Clarkson College, 250
Cole, R. R., 195
Computer Section, Diamond Research Laboratory, 106
Constable, D., 268
Cooley, B. A., 268
Copeman, R., 243, 244, 320
Coventry Technical College, 195
Custers, J. F. H., 412

D
DATC *see* **Diamond Abrasive Technology Centre**
DCDMA *see* **Diamond Core Drill Manufacturers' Association**
DRL *see* **Diamond Research Laboratory**
DWMI *see* **Diamond Wheel Manufacturers' Institute**
Dal'Oglio, G., 76
Daniel, P., 504
Daout, M., 15, 19
Darrow, K. A., 412
Davies, E. N., 242
Dawson, B., 408, 412
De Angelis, W., 24, 25
De Barr, A. E., 195
De Barra, C., 289
De Lai, A. J., 412
Dean, P. J., 412
De Beers Diamond Abrasive Technology Centre, 200, 267, 270 271, 272, 319, 406, 417
De Beers Diamond Research Laboratory, 98, 99, 100, 114, 119, 200, 225, 233, 266, 270, 272, 287, 318, 353, 372, 373, 401, 402, 405, 443
De Beers Seminar 'Diamond Tools in the Stone Industry', 320, 322
'DEMOS', 265, 266, 267, 269, 288, 289
Denham, P., 412
Deryagin, B. V., 70, 250
Deutsche Glastechnische Gesellschaft e.V., 378
'DIAMACIER '69', 406, 407
Diamond Abrasive Technology Centre, 200, 267, 270, 271, 272, 319, 406, 417
  Diamond Research Laboratory, 373
Diamond Core Drill Manufacturers' Association, 374
'Diamonds—Key to Industrial Progress', International Industrial Diamond Conference, Chicago 1969, 309, 370
'Diamond Powders and Tools in Precision Engineering', Geneva Seminar, 6, 12, 19, 60, 62, 67
Diamond Research Laboratory, 98, 99, 100, 114, 119, 200, 225, 233, 266, 270, 272, 287, 318, 353, 372, 373, 401, 402, 405, 443
  Applied Research Section, 101, 401
  Basic Research Section, 101
  Computer Section, 106
  Diamond Abrasive Technology Centre, 373
  Grinding Centre, 103, 270
  Grit Development Section, 102
  Industrial Division, 60
  Mines Division, 105
  Product Development Section, 106
  Sawing & Drilling Section, 106
'Diamond Tools in the Building Industry', Hamburg Seminar, 72
'Diamond Tools in the Stone Industry', London Seminar, 236, 243, 320, 322
Diamond Wheel Manufacturers' Institute (DWMI), 107
Dickinson, R. E., 374
Division of Optical Metrology, National Physical Laboratory, 242
Doklady Akademii Nauk SSSR, 250
Dolev, D., 414
Drukker, D., 288
Drukker, M., 288
Drury, R. J. G., 251
Duane, H. B., 251
Dyer, H. B., 76, 243, 244, 245, 273, 287, 288, 289, 318, 370, 371, 481, 501
Dyson, J., 242

E
Egan-Andrew, D., 229
Elbaum, C., 330
Electrochemical Process Development Laboratory, Hawker Blackburn Division, Hawker Siddeley Aviation, 455
Ellis, W. C., 70
Englehard Industries Technical Bulletin, 408
Engineering Design Show, 417
Eskenazi, L., 287, 288
European Machine Tool Exhibition, 11th, 406
Eustace, P. D., 287, 289
Eversole, W. G., 70

F
Farkas, P., 373
Farn, A. E., 120
Farnsworth, H. E., 412
Fedoseev, D. V., 70
Feklichev, Ye. M., 377
Fendler, E., 288
Ferchland, H., 371
Ferreira, E., 294
Fersman, A., 330
Finishing Technology Institute, Technical University of Brunswick, 378
Finnigan, G., 243, 245, 266, 267, 287
Fisher, P. J., 120
Ford, I., 320
Fougères, A., 234
France, S. S., (Liner), 141

G
Gaivoron, V. P., 249
Garguilo Jr, E. P., 373
Garner, V. J., 118
Garratt, A., 501
Gaudi i Cornet, A., 483
Gauge & Toolmakers' Association of Great Britain, 251, 374
Gellie, G. J., 53
General Post Office, 311
Geneva Seminar, 'Diamond Powders and Tools in Precision Engineering', 6, 12, 19, 60, 62, 67
Geological Museum, 183
Geology Department, University of Bristol, 320
Georgia Polytechnic Institute, 26
Gertsch, F., 12, 14, 19, 21
Giardini, A. A., 377
Goldschmidt, V., 330
Grandia, J., 314, 315, 316, 371, 372
Grassmann, J., 401, 402
Greater London Council, 55
Grinding Centre, Diamond Research Laboratory, 103, 270
Grit Development Section, Diamond Research Laboratory, 102
Grit Distributors' Seminar, De Beers, 1969, 287
Grodzinski, P., 202, 462
Grogan, A. F., 278
Grunwald, W., 195
Guykers, C. J., 409, 412

H
Haasis, G., 372, 373
Hagelqvist, L. G., 415
Haines, G., 206, 207
Hall, H. E., 76
Hall, H. T., 377, 409, 412
Hallewell, E. N., 373
Hamburg Seminar 'Diamond Tools in the Building Industry', 72
Hanle, E. H., 371, 481
Hanover Technical University, 379, 454
  Institute for Finishing Technology & Chip Forming Machine Tools, 450
Hardy Jr, A. F., 251
Hardy, L., 294
Hart, R., 417
Hartshorne, N. H., 120
Haywood, D. E., 288
Heintzelman, M., 186
Heise, E. O., 73
Helwig, L. C., 412
Herbert, M. C., 245
Herbert, S., 440
Hervo, P., 234, 276
Hincke, W. R., 412
Hinse, F., 73
Hinshaw, M. W., 107
Hodge, W. E., 251
Hoffman, A., 462
Holliday, F., 415
Holliday, J. P., 251
Holz, R., 378, 379
Hornstein, M., 372, 373
Hove, S., 330
Hudelett, G., 288, 289
Hughes, F. (H)., 114, 195, 200, 225, 269, 270, 287, 372, 373, 417, 454, 481
Huizing, A., 412
Hull, E. H., 411, 412
Humphreys, W. J., 330
Hush, J. S., 2, 74, 94, 310, 326, 398, 444

I
IDA *see* **Industrial Diamond Association of America**
IDIB *see* **Industrial Diamond Information Bureau**
Industrial Diamond Association of America Inc (IDA), 114, 119, 181, 186, 187, 309, 370, 415, 491
  Advanced Technology Committee, 76, 370
Industrial Diamond Association of Japan, 71, 98, 100, 245
Industrial Diamond Information Bureau, 182, 200, 201, 202, 210, 242, 250, 269, 275, 276, 289, 353, 379, 440, 454, 461, 481
'Industrial Diamond Revolution', Conference, 181, 273, 415
Industrial Division, Diamond Research Laboratory, 60
Institute of Crystallography, USSR Academy of Sciences, Moscow, 376
Institute for Finishing Technology & Chip Forming Machine Tools, Technical University of Hanover, 450
Institute of Geological Sciences, 181, 182, 183, 184
  Petrographic Department, 183
Institute of Physics & Physical Society, 250, 455
Institute for Scientific Information, 23
Institute for (Synthetic) Superhard Materials, 246, 248, 439
International Industrial Diamond Conference 'Diamonds—Key to

Industrial Progress', Chicago 1969, 309, 370, 481, 491
International Industrial Diamond Conference, Oxford 1966, 267, 454
Israel Atomic Energy Commission, Naval Soreq, Soreq Nuclear Research Centre, 462
Israel Institute of Technology—Technion, 414, 462

J
Jacobsen, 366
Jaras, R. N., 71
Jearum, F. C., 57
Jenkins, M., 374
Jeppson, J., 294
Jhaveri, K. C., 251
Jhaveri, R. B., 251
Johannsen, A., 182
Johnson, P. D., 251
Journal of Applied Physics, 250
Journal of Crystal Growth, 250

K
Kalashnikov, Ya. A., 377
Karsten, W., 378, 379
Kasagi, I., 71
Katze, E. F., 413
Keeleric, G. F., 451, 454
Keen, D., 278, 358, 359
Kelley, F. C., 409, 412
Kelly, J. B., 203
Kern, D., 378, 379
Kingery, W. R., 415
King's College, University of London, 411
Kizikov, F. D., 249
Kleinman, L., 408, 412
Knippenberg, W. F., 412
Koch, L., 310
Koebel, C. J., 294
Kogosov, L. P., 246, 247
Kolesnichenko, G. A., 409, 412
Kondratskii, V. A., 246
Kosmis, J., 196
Kristallografiya, 376
Kronenberg, M., 454
Kubeth, H., 195

L
Laboratoire d'Essais, Paris, 406
Landay, J., 245
Lander, J. J., 412
Langenberg, A., 412
Langley Research Center, National Aeronautics & Space Administration, 276
Lassoeur, J.-P., 406, 407
Laue, M., 333
Lavrentev, A. V., 70
Lavrinenko, I. A., 246, 247
Lawrence Radiation Laboratory, University of California, 373
Leblans, L. M. L. J., 412
Lehman, J., 182
Leist, T. H., 373
Lemon, J. R., 373
Lennon, F. J., 76
Levin, S. B., 377
Levitt, C. M., 401, 402
Liander, H., 377
Lieberman, I. S., 374
Lightowlers, F. C., 411, 412
Lindenbeck, D. A., 450, 454
Linholm, A. A. L., 72, 73, 200, 242, 288, 353, 378, 379
Litvin, Yu. A., 377
Livesey, L., 289
Loecy, J., 202
Loh, E., 378, 379
Loladze, T. N., 26
London Chamber of Commerce
Diamond & Pearl Section Laboratory, 120
Precious Stones Laboratory, 327
London Diamond Club, 71
London Seminar 'Diamond Tools in the Stone Industry', 236, 243
London University
King's College, 411
Royal Holloway College, 333
Lopatina, G. G., 70
Loridan, M. P., 245
Lorraine, M., 276
Lukyanovich, V. M., 70
Lundblad, E. (G.), 247, 377, 415
Lunzer, J. P., 187

M
McCullagh, P. J., 418
McKee, R., 265
MacMillan, Wm. L., 187
Machining Research Laboratory, Slovak Technical University, Bratislava, 361
Maiman, 19
Manstead, S. K., 202
Marble & Granite Association, 245
Marinace, J. C., 314, 315, 316, 371
Marsden, P., 182
Marsh, J., 74, 75
Marsh, J. B., 412
Martinoni, J. G., 417
Matthews, 231
Matthias, Prof., 67
Mears, W. H., 412
Mehta, R. K., 251
Mehta, S. S., 251
Mellgren, K.-E., 197
Melville, D. R., 251
Merlijn, J., 201
Merton, Sir Thomas, 226
Metaal en Kunststof, 200
Michel, G., 116, 117
Mills, J. E., 444
Mines Division, Diamond Research Laboratory, 105
Ministry of Public Buildings & Works, 277
Antiquities Section, 443
Ministry of Technology, 461
Ministry of Transport, 2
Minten, F., 367
Molloy, M. D., 23
Morgan, W., 24
Morrison, J., 412
Muhling, S. G., 118

N
Naidich, Yu. V., 246, 247, 409, 412
National Aeronautics & Space Administration, 117
Langley Research Center, 276
National Bureau of Standards, US *see* **US National Bureau of Standards**
National Engineering Laboratory, 418
National Physical Laboratory, 226
Division of Optical Metrology, 242
Naville, R., 67
Neukäfer, F., 379
New York State Department of Transportation, 290, 291, 292
Nicolas, R., 234
Nikolskaya, N. V., 377
Nixon, President R., 332
Norling, G., 244, 245
Norrick, R., 374
Norris, J. C., 245
Northedge, G. A., 242
Notter, A., 195, 201, 268, 407
Novello, I., 310

O
Oerlemans, J., 200
Oliver, D. A., 195
Olson, J., 294
Onishi, S., 245
Oppenheimer, Sir Ernest, 99, 119
O'Rourke, F., 373
Osenberg, W., 450, 454
Ostermann, G., 366

P
Pálka, V., 361, 366
Patel, A. R., 329, 330
Patel, S. M., 329, 330
Patil, R. A., 250
Payne, C. J., 327
Perrett, C., 236, 244, 245
Petrographic Department, Institute of Geological Sciences, 183
Petrook, C., 327, 354, 356
Phaal, C., 23
Phillips, J. C., 408, 412
Philpott, F. G., 119
Pike, J., 327
Piquer, J. S., 416
Portsmouth, 358
Precious Stones Laboratory, London Chamber of Commerce, 327
Prentice, M., 288
Prescott, C. H., 412
Priestman, J. E., 455
Product Development Section, Diamond Research Laboratory, 106

Q
Queen Elizabeth, S.S., (liner), 141, 151
Queen Mary, S.S., (liner), 151

R
RAF *see* **Royal Air Force**
RAI Congresscentrum, 200, 201
Raal, F. A., 98, 247, 287, 288, 353, 409, 412
Radio Luxembourg, 310
Rainier, D. M., 60, 62
Rakovsky, M., 26
Ratterman, E., 76
Raymond, Sir Stanley E., 119
Reading University, 23
Redebaugh, G. A., 181, 186, 187
Reed, E. J., 118
Reinhart, H., 195
Ricci, C., 287, 288
Rodgers, C. B., 409, 412
Roitman, G. D., 249
Ross, F. M., 186, 187
Roy, A., 409, 412
Roy, A. R., 114
Royal Air Force (RAF), 141, 148, 277, 311
Royal Aircraft Establishment, 142, 145
Royal Holloway College, University of London, 333
Rozno, N. A., 26, 333
Rudd, B. J., 53
Ryabov, V. A., 70

S
SIRA *see* **British Scientific Instruments Research Association**
Sagrada Familia Temple, 481, 482, 483, 484, 485
Saich, R. C., 417
St. Catherine College, Oxford, 250
Samuels, L. E., 296
Sanger, P. L., 408, 412
Sappok, R., 409, 412
Sarofeen, G., 76
Sarofeen, G. M. J., 373

Savage, R. H., 412
Sawing & Drilling Section, Diamond Research Laboratory, 106
Schneider, E. J., 370, 371
Schomberg, H., 289
Schorr, A. J., 371, 372
Science Citation Index, 23
Seal, M., 372, 408, 410
Selby, J. S., 53, 244, 267, 406, 486, 501
Semenov, Yu. N., 246, 247, 249
Semko, M. F., 461
Shannon Grinding Centre, 268
Sharp, R., 412
Sheehy, J., 114
Simashkevich, 249
Simpson, A. J., 202
Singlehurst, V. G., 244, 245
Sinkankas, J., 296
Slovak Technical University, Bratislava, Machining Research Laboratory, 361
Smith, A. E., 417
Smith, G. F. Herbert, 326
Smith, L. I., 372, 373
Smith, N. R., 71, 245, 373
Smithells, C. J., 418
Snaddon, M. B., 288
Sorensen, E. R., 501
Soreq Nuclear Research Centre, Israel Atomic Energy Commission, Naval Soreq, 462
South African Broadcasting Association, 353
Spitsyn, B. V., 70
Springborn, R. K., 210
Staatsbedrijf der Artillerie Inrichtingen, 201
Stanki i Instrument 246
Stettler, E., 6, 14, 21
Stern, E., 288
Stern, W., 288
Stone Industries, 245
Stone Industries Exhibition, 53, 245
'STONEX '69', 243
Strauss, H. L., 412
Strong, H. M., 377
Stuart, A., 120
Stuart, C. M., 455
Suchoparek, V., 353
Sukhushima, I. S., 377
Suslo, S. D., 26
Sussex University, 250
Swan, R. J., 296, 372, 373, 491
Swiss Federal High School, Zurich, 67

T
Tabor, D., 242
Taeyaerts, F., 318
Taeyaerts, J., 318, 370, 371
Talmage, A. A., 71
Teather, H. G., 56, 119
Technical University of Brunswick, 379
  Finishing Technology Institute, 378
Technical University, Hanover, 379, 454
  Institute for Finishing Technology & Chip Forming Machine Tools, 450
Technion—Israel Institute of Technology, 414, 462
Tepper, L. B., 294
Tikhomirova, L. M., 377
Tokyo Seminar, De Beers, 98
Tolansky, S., 210, 242, 333
Tolksdorf, M. V., 72, 73
Tucker, R. E., 209
Turek, Z., 366
Turnbull, D. L., 501
Tydings, J. E., 377
Tyrrel, W. R., 373

U
US Air Force, 117
US Atomic Energy Commission, 117
US National Bureau of Standards, 60
US Navy, 117
USSR Academy of Sciences, 250
  Institute of Crystallography, 376
  Institute of Physical Chemistry, 70
USSR State Planning Committee, 26
Ukrainian Academy of Sciences Institute of Materials Problems (IPM), 246, 247, 248
United Kingdom Atomic Energy Authority, 183, 495, 499
University of Birmingham, 244, 320
University of Bristol, 320
  Geology Department, 320
University of California, Lawrence Radiation Laboratory, 373
University of London
  King's College, 411
  Royal Holloway College, 333
University of Reading, 23
University of Sussex, 250
University of the Witwatersrand, 23, 71, 119
Unterbusch, F. W., 451, 454

V
Vadilo, P. S., 328, 329, 330
Van Alphen, R., 289
Van Daal, H. J., 412
Van Dijk, J., 288, 289
Van Marseveen, G., 287
Van Moppes, L. E., 374
Van Moppes, L. M., 455
Van Valkenburg, A., 373
Vanderslice, T. A., 411, 412
Vanderwell, C. A., 399
Veldhuizen, E. C., 200
Verbeeth, J., 28, 196, 458
Verby, W. J., 374
Vereshchagin, L. F., 377
Vickery, C., 456
Voelker, J., 23
Volkov, A. I., 376

W
Wagner, R. S., 70
Wapler, H., 288, 406, 407
Ward, H. L., 374
Wasscher, J. D., 412
Weavind, R. G., 114, 409, 412
Weiss, L., 195
Weiss, R. J., 408, 412
Weissberg, C., 287
Wells, A. L. R., 118
Wells, L. J., 118
Wells, T. S., 118
Wentorf, R. H., 377
Wentorf Jr, R. H., 412
Wenzler, R., 76
Whiteman, M. B., 331
Whitton, G., 332
Wicke, G., 289
Wilds, F. B., 2
Wilks, E. M., 285
Wilks, J., 285
Williams III, L. A., 371
Wilson, H. S., 119
Winterton, R. H. S., 242
Wittemore, B., 24
Witwatersrand University *see* University of the Witwatersrand
Wiziarde, J., 417
Woodland, G., 30
Wood-Mallock, C. P., 71
Woolwich Polytechnic, 188
Wooster, W. A., 120
Wrobleski, P. A., 186, 187

Y
Yarnitsky, Y., 414, 462
Yemelyanov, B. M., 246
Yoshinaga, Y., 245
Young, J. E., 412

Z
Zemlyanskii, Ye. S., 246, 247
Zook, D., 76
Zuzelo, E. A., 186

TRADE NAME AND COMPANY INDEX

A
Aartse Tuyn Hoon- en Slijptechniek, 201
ABWOOD CONTELYT, 189
Acker Drilling Co., 293, 374
Accurate Diamond Tool Corp, 315
Adcock & Shipley Ltd, 147, 202
Adement, 289
Advanced Development Section, Research & Development Department, Grinding Wheel Division, Norton Co, 23
Advanced Diamond Technology Ltd, 231
Aerosol Equipment Ltd, 455
ALKYD, 160, 161
Alpex Wheel Co, 417
American Coldset Corp, 371
Amplex Corp, 457
Anco Diamond Abrasives Corp, 288, 289
Anderson-Grice Ltd, 439, 442, 443
ANDERSON-PAYNE SPINEL REFRACTO METER, 327
Anglo-American Corporation (Australia) Ltd, 53
Anocut Engineering Co, 371
ARALDITE, 156
ARNO 1 VR, 156
Asahi Diamond Tool Co, 71
ASEA AB, 376
Associated Engineering Developments Ltd, 278, 285, 358
Atlas Copco, 55
Austin Motor Co, 71
Autoflow Engineering Ltd, 118
Automation Ltd, 115
Autopistas Concesionaria Espanola SA, Materials & Quality Control Department, 416
Avica Equipment Ltd, 157, 158
Ayer & Son Inc, N. W., 186

B
BAC *see* British Aircraft Corp
BALLINGER, 145
Barker Machine Tools & Equipment Ltd, 27
BBC, 311
Bell Telephone Co, 101
Bell Telephone Laboratories, 371, 372
Benzinger, Carl, 359, 360
Bhukanvala & Sons, 250
BICC *see* British Insulated Callender's Cables Ltd
Black & Decker, 28, 293
BLUE DOT, 331
BMC MINI-AUSTIN, 75
BMC MINI-COOPER, 151
Board of Trade, 71
Boart & Hard Metals Products SA Ltd, 374
Boart Products South Africa Ltd, 454
Bonded Diamond Products Division, Cape Diamond Products Ltd, 455
Booth Rouse Equipment Co, 31
BoRo, 30
Boyles Bros Ltd, 369, 501
Branson Sonic Power Co, 373
Brayhead Group of Companies, 311
Bristol Aeroplane Plastics Ltd, 94, 96, 97
Bristol Engine Division, Rolls Royce Ltd, 140, 141, 148, 149
Bristol Siddeley Engines Ltd, 140
British Aircraft Corp, 137, 139, 140, 145
British Diamond Wire Die Co Ltd, 455
British Electronic Industries Ltd, 154
British Insulated Callender's Cables Ltd, 311
British National Gas Turbine Establishment, 142
Brown & Sharpe, 208, 209
Brügger, Rudolf, 12
Bryant Symons Co Ltd, 227, 309, 311, 358
BUMP-CUTTER, 72, 276, 277, 503
Bureau Hartogh, 200
Business Conferences & Exhibitions Ltd, 417

C
California Highway Department, 501
Cambridge Instruments Ltd, 279
Cambridge Scientific Instruments Ltd, 374
CAMBRIDGE STEREOSCAN, 358, 375
CANBERRA, 141
Cape Diamond Products Ltd, Diamond Products Division, 455
CAT, 502
CATERPILLAR 922 WHEEL LOADER, 502
CATV (COMMUNITY ANTENNA TELEVISION), 31
CAV Ltd, 397, 398, 399, 400
Centre d'Essais de Propulseurs, 142
CHAPHONE, 489
Chase Brass & Copper Co, 331
Chase Diamond Tools Ltd, 327, 353, 354, 356, 358
CHRISTENSEN, 374, 416
Christensen-Boart Oil Fields Products (Pty) Ltd, 374
CHRISTENSEN BUMP-CUTTER, 276, 277, 503
CHRISTENSEN CONCRETE PLANER, 72, 240
Christensen Diamond Products Co, 245, 332, 374, 502
Christensen Diamond Products (France), 276
Christensen Diamond Products GmbH, 72, 73
Christensen Diamond Products (UK) Ltd, 500
Christensen Diamond Services (France), 503
Christensen Diamond Services (UK) Ltd, 236, 244, 245, 251, 277, 375
Citco Inc, 295, 375, 397
  Micro-Dimensional Diamond Tool Services Div, 202
CLIPPER, 251
Clipper Manufacturing Co, 417
COLMONOY DIAMOND SETTING POWDERS, 374
COMBI-CUTTER, 24, 25, 374
COMET, 138
Compagnie Française Thomson-Houston-Hotchkiss-Brandt, 234, 235
CON 60, 448
CONCORDE, 97, 137, 138, 139, 140, 142, 143, 144, 145, 151, 153, 154, 155, 157, 158, 159, 160, 162, 164
CONCRETE PLANER, 72, 240
CONCUT, 30, 31
Condotte Espanola SA, 416
Consol Diamonds Ltd, 156
Construction Equipment & Machinery Co (Great Britain) Ltd, 251
CONTELYT, 193
COOKE'S ELUTRIATOR, 63
Craelius Co Ltd, 54
Craelius Diabor AB, 197, 199
CRAELIUS DIABORIT, 369
CRAELIUS PIXIE, 53, 55
Crane Packing Co, 413
Cross Manufacturing Co Ltd, 96
Crystal Structures Ltd, 120
Cutrock Engineering Co, 185

D
Damon Engineering Inc, 207
Daran Products Inc, 24, 25
DAVIS TASK FORCE, 31
De Beers, 60, 61, 102, 185, 196, 234, 265, 276, 289, 397, 413, 442, 443, 459, 484, 486, 490, 501, 503
DE BEERS DXDA-MC, 104, 181, 202, 225, 230, 231, 232, 233, 265, 266, 267, 269, 273, 274, 275, 289, 318, 370, 397, 406, 407, 450, 452
DE BEERS EMB, 276, 501
DE BEERS EMB-S, 28, 29, 484, 485
DE BEERS DIAMOND GRIT, 5, 75, 153
De Beers Group, 71, 119, 242, 288
De Beers Industrial Diamond Division, 53, 72, 76, 93, 98, 100, 114, 181, 186, 195, 200, 201, 202, 225, 243, 244, 245, 265, 266, 267, 268, 269, 275, 287, 288, 289, 294, 318, 353, 370, 371, 378, 379, 406, 407, 417, 454, 486, 501
De Beers Industrie-Diamanten (Deutschland) GmbH, 200, 201, 242
DE BEERS MDA-S, 294, 486, 487, 488, 489, 490
DE BEERS MICRON POWDERS, 61
DE BEERS NATURAL DIAMOND GRIT, 93
DE BEERS NATURAL DIAMOND PARTICLES, 150
DE BEERS RDA, 403, 405
DE BEERS RDA-MC, 103, 104, 265, 266, 267, 269, 271, 273, 275, 404, 405, 406
DE BEERS SDA, 458
DE BEERS SND-MB, 453, 486, 487, 488
DE BEERS SND-RB, 161, 403
DE BEERS SND RB-MC, 103
DE BEERS SYNTHETIC METAL CLAD GRIT, 10
Delapena Ltd, 460
DELAPENA HONING MACHINE, 490
DELAPENA INDUCTION HEATER, 152
DESCO Inc, 460
DIABORIT, 55, 369
DIADRIL, 417
DIADUST, 227
DIAFORM, 71
Diaform Ltd, 373
Diagrit Diamond Tools Ltd, 23, 399, 400
Diamant Boart SA, 119, 163, 185, 234, 244, 245, 332, 459
Diamant Boart France, 234
Diamant Winter Italiana, 71
Diamond Abrasives Corp, 287
Diamond Corp, 327
Diamond Dust Co Inc, 186, 187
Diamond Products Division,
  Elgin National Industries, 417
  Elgin National Watch Co, 118, 119
DIATURN II, 206, 207
DIEHARD STANDARD, 274
Diffraction Gratings & Optics Ltd, 225, 226, 227, 229
Diputacion Provincial, Barcelona, Test & Analysis Laboratory, 484
District Bank, 444
DOMINICUS, 442
DOUGLAS SC 8, 140
DOWNLAND DIAMOND WHEEL TRIMMER, 3, 5
Doyle (1969) Ltd, J. T., 501
DPA, 399, 400
DRESS-A- MATIC, 295
Drukker & Zn NV, D., 29, 71, 288, 332, 372, 408, 410
Du Pont de Nemours & Co Inc, E. I., 373
DUBBELDEE, 288, 332
Dubbledee Diamond Co, 357
DUBBELDEE DIAMOND MICRON DXDA-MC, 104, 202, 225, 230, 231, 232, 233, 265, 266, 267, 269, 273, 274, 275, 289, 318, 370, 397, 406, 407, 450, 452

E
Eastern Diamond & Mullins Industrial Diamond Corp, 294
Edelstaal Maatschappij NV, 201
Ekco Electronics Ltd, 154, 155, 156
ELB Grinder Corp, 318
Elb-Schliff Edmund Lang Flachschleifmaschinenfabrik, 318
Elcometer Instruments Ltd, 71
Electric Motor Division, Vactric Ltd, 159
Electrical & Musical Industries (EMI) Ltd, 143, 311
Electronics Semi-Conductor Corp, 208
Elgin National Industries, Diamond Products Division, 417
Elgin National Watch Co, Diamond Products Division, 118, 119
ELLIOT, 158
Elsevier Publishing Co, 294
ELYCO, 361

EMB, 276, 501
EMB-S, 484, 485
EMI *see* **Electrical & Musical Industries (EMI) Ltd**
Engelhard Hanovia Inc, Industrial Diamond Division, 294
Engis Ltd, 119, 152, 201, 250, 294, 296, 332, 372, 373, 491
Engis Equipment Co, 370, 371, 417
Eskenazi, SA, 287, 288
Ets CMV, 115
Euroatom, 499

F
Ferranti Ltd, 317
Ferranti Organization, 499
Fevre et Cie, 238
Financiera Comercial e Industrial SA, 416
FIRTH BROWN 'DIEHARD STANDARD', 274
Fletcher, Thomas, 441
Forest of Dean Stone Firms Ltd, 441
FREDDY, 460
Freeman, Fox & Partners, 441

G
GCU, 27
General Electric Co, Metallurgical Products Dept, 114
General Motors, 203, 371
Geomasina, 501
Gerätebau Wiedtal, 73
Glass Research Centre, PPG Industries Inc, 203, 204
GLASSMASTERS, 374
Gregory Quarries Ltd, 443
Grenier-Charvet, 237
Grinding Wheel Division, Norton Co, Advanced Development Section, Research & Development Department, 23

H
Habit Diamond Tooling Ltd, 56, 57, 59, 332
Habit Group, 71, 119
Haenni Group, 115
Hahn & Kolb, 378, 379
HARDINGE, 280, 331
Hawker Siddeley Aviation, Hawker Blackburn Division, Electrochemical Process Development Laboratory, 455
HELILAPS, 119
Henderson Diamond Tool Co Ltd, 455
High Pressure Diamond Optics, 373
HYDROMATIC, 237
Hydramet American Inc, 500
HYPREZ, 119, 152, 332

I
IBM Research Division, 371, 372
IBM Thomas Watson Research Center, 314
IDC *see* **Industrial Diamond Co (Sales) Ltd**
IDP *see* **next entry**
Impregnated Diamond Products Ltd, 76, 97, 147, 150, 158, 188, 195, 210, 442, 447, 486, 504, 505
Industrial Diamond Co (Sales) Ltd, 289, 501
Industrial Diamond Division, Engelhard Hanovia Inc, 294
Industrial Diamond Services Inc, 502
Industrial Distributors (1946) Ltd, 119
Ingenieurbüro Franz Hinse, 73
International Equipment Co, 206, 207

J
Jacoby, Alfred, 360
Jardine Inc, Douglas, 30
JEM5Y, 361
Jenaer Glaswerk Schott & Gen, 379
JET COR, 293
Jones & Shipman, 153, 158, 233, 265, 268, 397, 505, 506, 507
JONES & SHIPMAN MICROMATIC, 400
Joy Manufacturing Co, 374
Jugometal, 501

K
K & C Mouldings (England) Ltd, 3, 5
KEMET, 317, 332, 491, 492, 493, 494, 495, 496, 497, 498
KEMET CERAMIC, 492, 498, 499
KEMET COPPER, 317, 492, 493, 494, 495, 496, 497
KEMET IRON, 492, 493, 494, 495
KEMET LEAD, 492, 494
KEMET NICKEL, 492
KEMET STAINLESS STEEL, 492
KEMET TIN, 492, 493, 494, 496
KEMET TUNGSTEN CARBIDE, 492
Koebel Diamond Tool Co, 187, 294
Kosmis, John, 196

L
LA Gauge Co, 456, 457
LANCER, 202
LAPMASTER, 234, 413
Leader Art & Press Services, 460
Liga Financiera SA, 416
Linear Motion Components Div, SKF Industries, 204
LINEAR PILOTOR, 457
Lloyds Register of Shipping, 2
Loh, KG, Wilhelm, 378, 379
LONGYEAR, 416, 500
Longyear (UK) Ltd, 374
Lucas Group, 399
Lundh, AB Nils P., 367
Lunzer Diamond Tool Co Ltd, 455
Lunzer Industrial Diamonds Inc, 24, 25, 187, 202, 374

M
McAlpine & Sons Ltd, Sir Robert, 55
Machinefabrieken Handelsmij van Noorden NV, 445, 447, 448
Mader & Co, K., 455
Majestic Diamond Tool Co Inc, 331, 371
Marcos Cars Ltd, 74, 75
Massey Ferguson Group, 486
Mastertape (Magnetic) Ltd, 309, 310, 311, 312, 313
Materials & Quality Control Department, Autopistas Concesionaria Espanola SA, 416
MATHEYS, 459
Matthey Bishop Inc, 286
MDA-S, 294, 486, 487, 488, 489, 490
MERCER CLEARLINE, 400
Metal Box Co, 225, 230, 231, 232, 233
Metallurgical Products Department, General Electric Co, 114
Metallurgical Services Laboratories Ltd, 375
Metals Research Ltd, 295
METASERV AUTOPOL, 375
METASERV UNIVERSAL POLISHER, 375
METTLER ANALYTICAL & PRECISION BALANCES, 27
Meyer, Carl, 458, 459
Micro-Dimensional Diamond Tool Services Div, Citco Inc, 202
MICROMATIC, 400
MIKROKATOR COMPARATOR, 457
Mikron SA, 67, 69
MINI MARCOS, 75
Misset NV, C., 201
Mobile Drilling Co, 374
Monroe International Division, Litton Business Systems (Holland) NV, 201
Moore, J. Robert, 229
MOYNO, 293
MSS Recording, 310, 311, 312
MULTIFIX, 280

N
Nagel Maschinen-u Werkzeugfabrik, 372, 373
Nářadi n.p., 361
National Beryllia Corp, 116, 117
National Research Co, 373
News of the World Organization, 161
NIEHOFF, 286
NIHARD, 407
NIMONIC, 407
Norton Co, 251, 294, 372, 373, 417
Advanced Development Section, Research & Development Department, Grinding Wheel Division, 23
Norton Abrasives Ltd, 153
Norton International Inc, 439

O
Odling & Sons Ltd, Anselm, 244
Okuma Machinery Works Ltd, 27
Olson Diamond Associates, 294
OLYMPUS 593, 140, 141, 146, 147, 148, 149, 150, 151, 153
OPTIDRESS, 158
Orly Laboratories, 276
O'Rourke Diamond Co, 373
Osaka Diamond Industrial Co Ltd, 245
Production Division, 245
OSBORN'S VG, 265

P
Pattesons of Manchester, 444, 445, 446, 448, 449
Perkins Engine Group, 486, 487, 488, 489, 490
Permattach Diamond Tool Corp, 373
Philips Co, 411
Philips Organisation, 154
PIXIE, 28, 53, 55, 368
Planned Precision Ltd, 161
POSALUX F.C.T., 360
PPG Industries Inc, Glass Research Centre, 203, 204
Précidia SA, 332
Precision Diamond Tool Co, 318, 319, 370, 371, 417
Premier Diamond Mine, 119
Prins Bouwstoffenhandel NV, Gebr, 458, 459
PROFICORDER, 457
Pye of Cambridge Ltd, 154
Pyrometric Equipment Co Ltd, 185

R
Ransome & Co Ltd, A., 151
Ransome & Marles Bearing Co Ltd, 151, 152, 153

Rayner Optical Works, 327
RAYNER REFRACTOMETER, 326, 327
RDA, 403, 405
RDA-MC, 265, 266, 267, 269, 271, 273, 275, 404, 405, 406
REICHERT MeF MICROSCOPE, 279
Reinforced Fibre Structures (East Anglia) Ltd, 1, 2, 3, 4
RENÉ 41, 397
Research & Development Department, Grinding Wheel Division, Norton Co, Advanced Development Section, 23
RESIMET, 505, 506, 507
ROKIDE, 149, 150
Rolls Royce Ltd, (Bristol Engines) Division, 140, 141, 148, 149
Rolls Royce (Composite Materials) Ltd, 94
Rosemount Engineering Co Ltd, 162, 163
Rudkin & Riley Ltd, 460, 500
RVO-TNO, 459

S
Sandyford Engineering Ltd, 501
Schaap NV, A. F., 201
SCHRÖDINGER, 408
SDA, 458
SEM *see* **Small Electric Motors Ltd**
Semiconductor Specialities Corp, 208, 209
Shaw Autoflow (Diamonds) Sales Ltd, 118
Shaw & Son (Diamonds) Ltd, A., 118, 158
SHEFFIELD CAVITRON, 314
Sierra Leone Selection Trust Ltd, 332
Singapore Port Authority, 501
Sinterit SA, 484, 485
SKF Industries, Linear Motion Components Div, 204
Slade & Woolf Ltd, 359
Small Electric Motors Ltd, 160
Smit & Co, Anton, 374
SMIT TNX, 443
SND-MB, 453
SNECMA, 140, 141, 148
SNPA, 185
Soag Machine Tools Ltd, 318
Société Chimique, Routière et Entreprise Générale, 503
Société CMV, 372, 373
Société du Diamant Industriel, 503
Société National d'Etudes et de Construction de Moteurs d'Aviation (SNECMA), 140, 141, 148
Soil Mechanics Ltd, 443
SPARCATRON-CONTELYT, 189
Spider Inc, 115, 206
Sprague & Henwood Inc, 290
Square Grip Reinforcements Ltd, 23
STEREOSCAN, 279, 374, 491, 499
Stettler, SA, H., 6
Structural Dynamics Research Corp, 373
Sud Aviation, 137, 140
SUNBEAM, 151
Sun Tool Co, 76, 373
Supreme Diamond Tools Ltd, 118, 161
Svenska Diamantbergborrnings AB (Craelius), 28
SYN-RB, 403

T
TACCHELIA, 268
Takdust Products Ltd, 202
TAKGARD, 202
TALYSURF, 361
Taylor Woodrow International Ltd, 501
Taylor Woodrow of Sierra Leone Ltd, 332
Technirubis SA, 19
Technodiamant NV, 201
Terratest AB, 197, 199
Test & Analysis Laboratory, Diputacion Provincial, Barcelona, 484
Thermal Syndicate Ltd, 145
TNX, 443
Trend Industrial Equipment Ltd, 27
TRIEFUS, 439
Triefus (France), 245
Triefus Industries Ltd, 97, 244, 245, 448
TSR-2, 148
Turbojet Humidity & Temperature Control Instrumentation Ltd, 115

U
Ultra-High Pressure Units Ltd, 119, 406
Unilever, 445
UNI-NEVEN, 147, 158, 447
Union Industrial Bancaria, 416
Universal Grinding Ltd, 455
Universal Grinding Wheel Co Ltd, 153
Universal Grinding Wheel Group Holdings Ltd, 23, 455
URMA-LUNZER, 455

V
Vactric Control Equipment Ltd, 159, 160, 161
Vaerco Inc, 373
Van Moppes & Sons Ltd, L. M., 143, 202, 227, 229, 245, 332, 373, 374, 417, 455
Van Moppes of Basingstoke Group, 71
VAN MOPPES TNX, 443
Van Schaik en Berghuis, 458, 459
Van Voorden *see* **Machinefabrieken Handelsmij van Voorden N.V.**
VC10, 140
Vermont Marble Co, 114
Viatest Maschinen- u Fahrzeugwerk, 73
VICKERS, 150
VIMET, 118
VINITEX, 458, 459
VULCAN (aircraft), 141, 148
Vumore Video Inc, 30

W
WEBSTER BENNET, 150
Wellson Abrasive Products, 118
Wellson Manufacturing Co Ltd, 118
Wendt KG, Fritz, 201, 270, 371, 372, 450, 451
Werdiamond Sprl, 287
Western, John R., 288
Western Gold & Platinum Co, 439
Westwind Turbines Ltd, 295
Wheel Trueing Tool Co, 501
White, Wolfe Barry & Partners, Sir Bruce, 501
Wickman Machine Tool Sales Ltd, 500
Wilds Ltd, F. B., 1, 2, 3, 4
Wilson Diamond Tool Co Ltd, 250
Winter & Sohn, Ernst, 71, 201, 373
WOLF, 183, 185
WOLFGRINDETTE, 5
Wunderlich, Jean, 289

Y
Yorke & Partners Ltd, F., 244, 245
Young & Co Ltd, A. S., 374

SUBJECT INDEX

A
Abrasion resistance of diamond, 99
Abrasives
  diamond grinding
    cast iron, 406, 407
    ductile metals, 406, 407
    steel, 406, 407
    wheel preparing, 270
  electrolytic grinding, 189
  hardness properties in natural stone affecting sawing, 321
  lapping compounds, composition, 461
  materials, hard diamond
    core drilling, 458
    sawing, 458
  slurry, hardness of particles, 316
Accuracy of diamond fly-cutters, 67
Accurate machine for diamond machining computer discs, 313
Acid, nitric production
  catalysts, 286
  drawing fine platinum wire with diamond dies, 286
  oxidation gauze, 286
Additives in coolant affecting wheel efficiency, 271
Advantages
  diamond
    identifying gemstones, 327
    tooling in building industry, 72
  whole stone diamond tools, 315
Aerosol filling equipment, 455
Aggregate metallized grit diamond wheels, 247
Air bearing components shaping with diamond compound, 456, 457
Aircraft
  control system, diamond machining of servo-components, 159, 160, 161
  supersonic transport, 138, 139, 140, 141, 142
    passenger comfort, 141
    power plant, 141
    testing engine, 142
Air-driven diamond tools trimming glass fibre car bodies, 74, 75
Airtight ceramic shaft seals, 413
Alum sculpture experiments, 329
Alumina ceramic shaft seal rings,

diamond lapping, 413
Aluminium
bronze bearings, 160
computer discs, finishing with diamond tools, 310, 311, 312, 313
silicon alloy pistons, machining with single point diamond tools, wear, 278, 279, 280, 281, 282, 283, 284, 285
Analytical precision balances, 27
Ancient monuments, restoring with industrial diamond, 440, 441, 442, 443
Angle of diamond
drill, 500
tool, 355
Application
diamond fly-cutters, 67
fluids
cutting, 210
grinding, 210
Kemet laps, 494
Applied research on diamond, 101
Armature output, increasing with diamond lathe, 206, 207
Artificial hip joints, lapping, 496
Asbestos cutting with diamond saw, 27
Asphalt sawing with lightweight, portable diamond saw, 375
Atomic fuel rods, lapping, 494
Automatic diamond wheel dressing equipment, 295
Automotive glass, diamond core drilling, 203, 204, 205
constant
feed, 203
pressure, 203
sharpening drill, 204
technique, 203

B
Balance
electrochemical-mechanical, electrolytic grinding
control, 191
correction, 191
precision analytical, 27
Balancing wheel, incorrect for measurement of grinding forces, 404
Basic diamond research, 99
Bearing
air components shaping with diamond compound, 456, 457
aluminium-bronze, 160
Concorde power unit, 151, 152, 153
diamond
compound for lapping, 152
dressing, 152
stones, diamond machining of synthetic
ruby, 12, 13, 14, 15, 16, 17, 18
sapphire, 12, 13, 14, 15, 16, 17, 18
Behaviour of diamond powder on diamond polishing scaife, 462, 463
Beryllium oxide ceramic, machining with diamond tools, 116, 117
Bits, diamond drill
drilling
high level, 293
research programme, 293
life, 293
maintenance, 290, 291, 292, 293
Blades, diamond saw
circular, 240
cutting non-metallic materials, 107, 108, 109, 110, 111, 112, 113, 114
testing, 110, 111, 112
gang, 240
pendular, 241
mobile for cutting concrete, 30, 31
production thin rock sections, 182
sawing stone temple building, selection, 484
Blocks of stone, diamond sawing for increasing production, 484
Boat
hulls
glass-fibre reinforced plastic, diamond trimming, 2, 3, 4, 5
construction
strong, 3
variety of tools, 5
windows, diamond cutting, 5
Bond, Resimet
increasing efficiency in dry grinding
cutter, 504, 505, 506, 507
tool, 504, 505, 506, 507
manufacturing techniques, 505
Bonded diamond wheels
dry grinding metal carbides, 249
metal impregnated for grinding diamond tool flanks, 59
resin, increasing life, 246
Bonding
electrical contact of diamond, methods, 408, 409, 410, 411, 412
forces of unclad diamond grit, 405
Bone sections, lapping, 496
Book
cutting tools, 461
machines, 461
minerals, 242
mining, 242
reference metals, 418
Booklet on diamond die, 455
Bore
distributor pump, diamond honing, 400
watch stone, diamond finishing, 15, 16
wells, narrow, 94, 95, 96, 97
Brass
rod
development problems, 331
diamond machining
details, 331
single-point turning tool, 331
roller
diamond indenting of grooves, 226, 227
preparing, 227
Breakthrough in steel grinding, 318, 319
Bridge
destruction, 440
diamond drilling, 54, 55
site investigation with diamond tools, 443
Brushing watch jewels with diamond dust, 22
Building
Concorde with diamond tools, 164
escalator, diamond sawing concrete, 369
industry, diamond tools Seminar, 72, 73
temple
diamond sawing, 482, 483, 484, 485
stone, 484
sawing, selection of diamond saw blades, 484
wind tunnels, 145

C
Cable
electrical heating, laying by diamond cutting road, 503
TV underground system, installation, 30, 31
Capillary quartz tubes, 234
Car
bodies, glass fibre trimming with airdriven diamond tools, 74, 75
handbuilt sports, 74, 75
Carbide
dry grinding diamond
consumption research, 246, 247, 248, 249
metal bonded wheels, 249
hard, electrolytic grinding research, 461
life, 361, 362, 363, 364, 365, 366
quality, 361, 362, 363, 364, 365, 366
sintered tool edges
diamond grinding
electrolytic, 361, 362, 363, 364, 365, 366
mechanical, 361, 362, 363, 364, 365, 366
surface
measurement, 361
roughness, 361
test plates, diamond grinding for x-ray investigation of residual stresses, 461
tungsten
components, interrupted surface grinding, 271
cutting tools
machining pipework, 157, 158
sharpening with diamond wheels, 158
diamond
grinding, electrolytic grinding process, 270
wheels machining
parts, 153
tools, 153
steel combination, grinding, 273
Carbonyls, 376
Cases, watch diamond machining, 360
Casings, glass fibre reinforced plastics, 96
Cast iron, grinding with diamond abrasives, 406, 407
Catalogue, standard of gems, 296
Catalyst, production of nitric acid, 286
Centrifugation of fine diamond powder, 63
Ceramic
airtight shaft seals, 413
alumina shaft seal rings, diamond lapping, 413
beryllium oxide, machining with diamond tools, 116, 117
cutting tools, diamond grinding for electron microscope examination, 461
tubes, machining with diamond tools, 162, 163
Chain sawing, diamond of stone, 239
Characteristics
physical of Kemet laps, 492
wear of diamond wheels, 461
Chip, rock
diamond
grinding, 185
lapping, 185
mounting, 185
truing up, 185
Circular diamond saw blades, 240
cutting non-metallic materials, 107, 108, 109, 110, 111, 112, 113, 114
testing, 110, 111, 112
Classification of rock types, 320
Clear
edge in diamond cutting concrete, 31
hole in diamond drilling, 55

Cleaning
computer discs, 313
diamond wheel face
electrolytic, 454
mechanical, 454
Coated wires, diamond for machining quartz laser tubes, 234, 235
Coating computer discs, 313
Combi-cutter, 24, 25
Combination of tungsten carbide and steel, grinding, 273
Commutators, facing on semi-automatic lathe, 115
Compacting powder presses, 500
Components
air bearing, shaping with diamond compound, 356, 357
glass
diamond
precision machining, 24, 25
wheels
cutting, 24, 25
grinding, 24, 25
milling, 24, 25
polishing, 24, 25
slicing, 24, 25
machining with cutter, 24, 25
tungsten carbide, interrupted surface grinding, 271
Composite lapping materials, 491, 492, 493, 494, 495, 496, 497, 498, 499
Composition of abrasive lapping compound, 461
Compound
diamond
Kemet laps for lapping copper, problems, 317
lapping bearings of Concorde power unit, 152
machining metal models of wind tunnels, 143
natural, 457
shaping air bearings components, 456, 457
honing, 489
lapping
abrasive composition, 461
diamond, 491, 492, 493, 494, 495, 496, 497, 498, 499
Computer discs, 311
aluminium, finishing with diamond tools, 310, 311, 312, 313
cleaning, 313
coating, 313
diamond machining on accurate machine, 313
inspection, 313
Concept of milling in stone industry, 237
Concorde
diamond tools
building, 164
model making, 143
pipework, 157, 158
power unit, 148, 149, 150
bearings, 151, 152, 153
diamond dressing, 152
lapping with diamond compound, 152
Concrete
cutting, mobile saw with diamond blades, 30, 31
diamond
cutting clean edge, 31
grooving on highways, 502
sawing
building escalator, 369
contraction joint on motorway, 367
piles cutting with diamond saw, 501
planer, diamond, 237
sawing with lightweight, portable diamond saw, 375
Conductivity, high thermal in diamond, 101
Conduit, water drainage, diamond drilling, 54, 55
Conference
Diamonds-key to industrial progress, 370, 371, 372, 373
Industrial Diamond Revolution, 76
Physics, 250
Connecting rod, diamond honing, 490
Constant diamond core drilling of automotive glass
feed, 203
pressure, 203
Construction
diamond of motorway, 416
boat hulls
strong, 3
variety of tools, 5
Consumption of diamond in dry grinding of carbides, research, 246, 247, 248, 249
Contact, electrical diamond
bonding methods, 408, 409, 410, 411, 412
making, 408, 409, 410, 411, 412
Contamination of fine diamond powder, 66
Contraction joint on motorway, diamond sawing of concrete, 367
Contribution, mechanical to electrolytic grinding, 188, 189, 190, 191, 192, 193, 194, 195
Control
fine diamond powder, 60, 61, 62, 63, 64, 65, 66
quality, 65
electrochemical-mechanical balance in electrolytic grinding, 191
hole polish in watch production, 18
quality, 457
diamond, 354
system of aircraft servo-components, diamond machining, 159, 160, 161
Conventional mechanical grinding of steel, 453
Coolant
additives affecting wheel efficiency, 271
effect on diamond grinding wheel, 104, 105
Copper lapping with diamond compound on Kemet laps, problems, 317
Core, diamond
drills for site investigation, 73
drilling
automotive glass, 203, 204, 205
constant
feed, 203
pressure, 203
sharpening drill, 204
technique, 203
hard abrasive materials, 458
Correction of electrochemical-mechanical balance in electrolytic grinding, 191
Corrosion of Tubewell linings, 94
Corundum, diamond machining of sintered, 461
Cost of producing rectifiers, 154, 155, 156
Crowns, diamond for drilling oil, 332
Crushing strength of natural stone, 323
Crystal sculpture formation, 328
Crystallography
optical, 120
x-ray elements, 333
Cubes, silicon for semiconductor devices, 208, 209
Cupboards, leakproof fume, making, 458, 459
Cupwheel
diamond impregnated increasing output of thin rock sections, 182, 183 184, 185
flaring, Resimet, 505
Cut-off wheel, making diamond, 7
Cutter
diamond
milling
decorative texturing of stone, 239
surface set, design, 236
regrinding
economy, 461
productivity, 461
grinding
dry, Resimet bond increasing efficiency, 504, 505, 506, 507
wheel life, 271
machining glass components, 24, 25
Cutting
concrete with mobile saws fitted with diamond blades, 30, 31
diamond
boat windows, 5
concrete, clean edge, 31
fly-cutters
gears, 67, 68, 69
optical polygons, 67, 68, 69
ratchet wheel teeth, 68
half-boules, 9
platelets, 9
roads for laying electrical heating cables, 503
saw
asbestos, 27
concrete piles, 501
plastics
laminated, 27
reinforced, 27
edge of diamond tool
inspection, 358
lapping, 358
fluids
application, 210
selection, 210
glass components with diamond wheels, 24, 25
non-metallic materials with diamond circular saw blades, evaluating, 107, 108, 109, 110, 111, 112, 113, 114
oil life increased by mobile filtration unit, 460
performance testing
masonry, 114
natural stone, 114
refractories, 114
tool
book, 461
ceramic, diamond grinding for examination with electron microscope, 461
diamond machining, physical phenomena, 461
tungsten carbide
machining pipework, 157, 158
sharpening with diamond wheel, 158
Cylindrical grinding
platelets, 9, 10
universal machine, 27

D
Decorative texturing of stone with diamond milling cutters, 239
Demos, Diamond Grinding Steel, 266, 267, 268, 269

Deplating, electrolytic grinding, 192
Design of surface-set diamond milling cutter, 236
Destruction of bridge, 440
Details of diamond machining brass rods, 331
Determining hardness of grinding wheels, 404
Development
diamond
grit, 102
honing, 486, 487, 488, 489, 490
surface set tools in stone industry, 236, 237, 238, 239, 240, 241
electrolytic grinding, 188
Kemet laps, 491
precision lapping, 119
problems, brass rod, 331
Device, silicon cubes for semiconductor, 208, 209
Diamond
abrasion resistance, 99
abrasives grinding
cast iron, 406, 407
ductile metals, 406, 407
steel, 406, 407
blades on mobile saw for cutting concrete, 30, 31
circular saw blades cutting non-metallic materials, 107, 108, 109, 110, 111, 112, 113, 114
coated wires for machining quartz laser tubes, 234, 235
compound
Kemet laps lapping copper, problems, 317
lapping bearings of Concorde power unit, 152
machining metal models of wind tunnels, 143
natural, 457
shaping air bearing components, 456, 457
concrete planer, 237
consumption in dry grinding of carbides, research, 246, 247, 248, 249
constructing motorway, 416
core
drills for site investigation, 73
drilling
automotive glass, 203, 204, 205
constant
feed, 203
pressure, 203
sharpening drill, 204
technique, 203
hard abrasive materials, 458
crowns for oil drilling, 332
cutting
boat windows, 5
concrete with a clean edge, 31
half-boules, 9
platelets, 9
roads for laying electrical heating cables, 503
tools for machining, physical phenomena, 461
dicing silicon, 206, 209
die
booklet, 455
drawing fine platinum wire for nitric acid production, 286
working machine, 500
drawing wire for guitar strings, 196
dressing
bearings for Concorde power unit, 152
single point tools, 150
drill
angle, 500
bits
drilling
high level, 293
research programme, 293
life, 293
maintenance, 290, 291, 292, 293
standards, 374
drilling
bridge, 54, 55
clean hole, 55
conduit for water drainage, 54, 55
hardened glass plate, 459
office block modernization, 368
sewage plant
installation, 29
restoring efficiency, 28, 29
watch
jewels, 19, 21
stone, 15
dust for brushing watch jewels, 22
electrical contact
bonding methods, 408, 409, 410, 411, 412
making, 408, 409, 410, 411, 412
finishing watch stone bore, 15, 16
fly-cutters
accuracy, 67
applications, 67
cutting
gears, 67, 68, 69
optical polygons, 67, 68, 69
ratchet wheel teeth, 68
machining high voltage supply unit mouldings, 156
precision, 295
form roller, 150
generating machine, 118
graphite transformation, 376, 377
grinding
carbide test plates for x-ray investigation of residual stresses, 461
ceramic cutting tools, electron microscope examination, 461
electrolytic, 189
materials research, 270, 271, 272, 273, 274, 275
metals
ductile, 318, 319
film, 186
rock chips, 185
sintered carbide tool edge
electrolytic, 361, 362, 363, 364, 365, 366
mechanical, 361, 362, 363, 364, 365, 366
slabs
granite, 447
marble, 447
steel, 103, 318, 319, 450
Demos, 266, 267, 268, 269
die, 274
high speed
heat generation, 461
temperature, 461
machine
efficiency, 267
stability, 267
wheel
loading, 267
sound, 267
thin rock sections, 183
tungsten carbide, electrolytic grinding process, 270
grit, 60
development, 102
distributors seminar, 287, 288, 289
grinding steel, 202
removing material, 17
synthetic
metal clad, 10
parameters, 461
unclad, bonding forces, 405
wear of single, 461
grooving concrete highways, 502
hardness testers, 150
heat sinks, 101, 332
high thermal conductivity, 101
hones, efficiency, 490
honing
connecting rods, 489
development, 486, 487, 488, 489, 490
distributor pump
bore, 400
housing, 400
sleeve, 400
plate, 400
engines, 486
micron tolerances, 398, 399, 400
steel
hard-to-machine, 461
unhardened, 461
sticks, 486
value, 400
identifying gemstones, 326, 327
advantages, 327
impregnated
cupwheel increasing output of thin rock sections, 182, 183, 184, 185
hones, 398, 399, 400
metal bonded wheel grinding diamond tool flanks, 59
indenting of grooves in brass rollers, 226, 227
industrial
restoring ancient monument, 440, 441, 442, 443
revolution, conference, 76
seminar in Holland, 200, 201
industry, research, 98, 99, 100, 101, 102, 103, 104, 105, 106
Key to Industrial Progress, conference, 370, 371, 372, 373
lapping
alumina ceramic shaft seal rings, 413
compounds, 491, 492, 493, 494, 495, 496, 497, 498, 499
preparation of scaife, 357
rock chip, 185
watch jewels, 22
lathe increases output of armature, 206, 207
machining, 26
aircraft control system servo-components, 159, 160, 161
brass rod detail, 331
computer discs, accurate machine, 313
glass seminar, 378, 379
natural stones, 320, 321, 322, 323, 324, 325
geotechnical aspects, 244
pistons
inspection
technique, 278
tools, 280
worn, 281
parameters, 280
tool
production, 281
types, 280
precision, glass components, 24, 25
single-point turning tool brass rod, 331
sintered corundum, 461
synthetic bearing stones
ruby, 12, 13, 14, 15, 16, 17, 18
sapphire, 12, 13, 14, 15, 16, 17, 18
watch
cases, 360
jewels, 19, 20, 21, 22
macrotome, 295
metalworking, lecture, 200

milling cutter
decorative texturing of stone, 239
surface set design, 236
mining research, 105, 106
orientation, 354
ovalling watch jewels, 22
planing for removing faulty surface of runway, 277
polishing
quartz laser tubes, 234
scaife, diamond powder behaviour, 462, 463
slabs
granite, 447
edges, 448
marble, 447
edges, 448
powder
behaviour on a diamond polishing scaife, 462, 463
fine
centrifugation, 63
contamination, 66
control, 60, 61, 62, 63, 64, 65, 66
quality, 65
grading method, 61
particle
measurement, 64
shape, 61
production, 60, 61, 62, 63, 64, 65, 66
sedimentation, 63
standards, 64
tests, 64
watch production, 12, 13, 15
prism in refractometer, 327
production of préparages, 6, 7, 8, 9, 10, 11
holed stone, 6
quality control, 354
regrinding
cutters
economy, 461
productivity, 461
tools
economy, 461
productivity, 461
research
applied, 101
basic, 99
recovery from the sea, 106
saw
blades
circular, 240
testing, 110, 111, 112
gang, 240
pendular, 241
production thin rock sections, 182
selection for sawing stone temple building, 484
cutting
asbestos, 27
concrete piles, 501
plastics
laminated, 27
reinforced, 27
lightweight portable for sawing
asphalt, 375
concrete, 375
sawing stone, 442
sawing
chain of stone, 239
concrete for building escalators, 369
contraction joints for concrete motorway, 367
hard abrasive materials, 458
removing tram rails, 197, 198, 199
stone blocks increases production, 484
temple building, 482, 483, 484, 485
scriber, 202
sculpture
origin, 328, 329, 330
significance, 328, 329, 330
setting powders, 374
shaped point for ruling diffraction gratings, 226, 227, 228, 229
sizing slabs
granite, 447, 448
marble, 447, 448
slicing silicon, 208, 209
stones, 60
strategic, 210
surface, 409
structure study, 242
synthetic
formation, 376, 377
honing steel, 461
machining
glass, 26, 333
metal, 26, 333
tools
air-driven for trimming glass fibre car bodies, 74, 75
angles, 355
building
Concorde, 164
industry seminar, 72, 73
cutting edge
inspection, 358
lapping, 358
faceting machine, 57
factory in India, 250
finishing aluminium computer discs, 310, 311, 312, 313
grinding
flanks with diamond impregnated metal bonded wheel, 59
radii, 57, 59
grooving of runways, 276
impregnated for ultrasonic machining, wear, 314
investigating bridge site, 443
machining
ceramic
beryllium oxide, 116, 117
tubes, 162, 163
glass fibre reinforced plastics, 94, 95, 96, 97
high voltage supply unit mouldings, 155
metal models of wind tunnels, 143
micro-dimensional, 202
model making of Concorde, 143
production
rough surfaces, 148, 149, 150
shank, 355
shaped, 56, 57, 58, 59
setting procedures, 355
shaping hypersonic wind tunnel liners, 144, 145, 146, 147
stone industry
seminar, 243, 244, 245
surface set, development, 236, 237, 238, 239, 240, 241
turning steel, 461
types in industry
jewellery, 359
watch, 359
wear in single point machining aluminium/silicon alloy pistons, 278, 279, 280, 281, 282, 283, 284, 285
whole stone
advantages, 315
milling, 315
-tooled production line for manufacture of wall facings
granite, 444, 445, 446, 447, 448, 449
marble, 444, 445, 446, 447, 448, 449
tooling, industry
building, advantages, 72
jewellery, 354, 355, 356, 357, 358, 359, 360
stone, surface set, 245
watch, 354, 355, 356, 357, 358, 359, 360
trimming glass-fibre reinforced plastic boat hulls, 2, 3, 4, 5
turning, internal of wedding rings, 359
wear, 26, 99
wetting with liquid metals, 409
wheel, 375
aggregate metallized grit, 247
automatic dressing equipment, 295
cut-off, making, 7
face cleaning
electrolytic, 454
mechanical, 454
glass components
cutting, 24, 25
grinding, 24, 25
milling, 24, 25
polishing, 24, 25
slicing, 24, 25
grinding
abrasive, preparing, 270
dry of carbides, metal bonded, 249
effect of coolant, 104, 105
steel
electrolytic dressing, 450, 451, 452, 453, 454
testing, 451
problems, 230, 231, 232, 233
hollowing watch jewels, 21, 22
machining tungsten carbide
parts, 153
tools, 153
resin bonded, increasing life, 246
replaceable rims, 460
sharpening tungsten carbide cutting tools, 158
single for metallographic polisher, 375
turning of watch jewels, 21
wear, 26
characteristics, 461
resistance, 461
whiskers, 70, 250
growth, 70
VLS method, 70
whole stone for ultrasonic machining, 314, 315, 316
Dicing silicon, diamond, 208, 209
Die
diamond
booklet, 455
drawing fine platinum wire for nitric acid production, 286
working machine, 500
steel, diamond grinding, 274
testing machine, pull-through, 460
Diffraction gratings, ruling with shaped diamond point, 226, 227, 228, 229
Discs
computer, 311
cleaning, 313
coating, 313
diamond machining, accurate machine, 313
inspection, 313
recording, expansion, 310
Distributor
diamond grit, Seminar, 287, 288, 289
pump, diamond honing
bore, 400
housing, 400
sleeve, 400
plate, 400
Downfeeds, effect on measurement of grinding forces, 404
Drainage conduit for water, diamond drilling, 54, 55
Drawing, diamond
dies of fine platinum wire for nitric acid production, 286

guitar string wire, 196
Dressing
diamond of Concorde power unit bearings, 152
electrolytic of diamond wheels grinding steel, 450, 451, 452, 453, 454
testing, 451
incorrect of wheel, measurement grinding forces, 404
industrial stone, 443
tools, single point diamond, 150
wheel equipment, automatic diamond, 295
Drill
diamond
angle, 500
bits
drilling
high level, 293
research programme, 293
life, 293
maintenance, 290, 291, 292, 293
core for site investigations, 73
standards, 374
sharpening, diamond core drilling of automotive glass, 204
Drilling
diamond
bridge, 54, 55
clean hole, 55
conduite for water drainage, 54, 55
core
automotive glass, 203, 204, 205
constant
feed, 203
pressure, 203
sharpening drill, 204
technique, 203
hard abrasive materials, 458
crowns for oil, 332
drill bits
high level, 293
research programme, 293
hardened glass plate, 459
modernization of office block, 368
sewage plant
installation, 29
restoring efficiency, 28, 29
watch
jewels, 19, 21
stone, 15
laser of watch jewels, 19, 21
oil equipment, 374
rig, one-man, 293
Dry grinding
carbide, diamond
consumption research, 246, 247, 248, 249
metal bonded wheel, 249
Resimet bond increasing efficiency
cutter, 504, 505, 506, 507
tool, 504, 505, 506, 507
Ductile metals, diamond grinding, 318, 319
abrasives, 406, 407
Dust, diamond brushing watch jewels, 22
Dynamometer
measuring grinding temperature, 401
requirements, 401
research of grinding forces, 401, 402, 403, 404, 405

E
Ebauches, industrial, production, 12
Economy of diamond regrinding
cutters, 461
tools, 461
Edge
cutting of diamond tool
inspection, 358
lapping, 358
sintered carbide tool
diamond grinding
electrolytic, 361, 362, 363, 364, 365, 366
mechanical, 361, 362, 363, 364, 365, 366
life, 361, 362, 363, 364, 365, 366
quality, 361, 362, 363, 364, 365, 366
surface
measurement, 361
roughness, 361
slabs, diamond polishing
granite, 448
marble, 448
Effect
coolant on diamond grinding wheel, 104, 105
downfeeds on measurement of grinding forces, 404
electrolytic process on tool life, 363
sawing natural stone of abrasive hardness properties, 321
Efficiency
diamond hones, 490
increasing, Resimet bond dry grinding
cutter, 504, 505, 506, 507
tool, 504, 505, 506, 507,
machine for diamond grinding of steel, 267
restoring by diamond drilling of sewage plant, 28, 29
wheel affected by coolant additives, 271
Electrical
contact in diamond bonding
methods, 408, 409, 410, 411, 412
making, 408, 409, 410, 411, 412
heated cables laying by diamond cutting of road, 503
Electrochemical
-mechanical balance in electrolytic grinding
control, 191
correction, 191
processes in electrolytic grinding, 189
Electrolytic
cleaning diamond wheel face, 454
dressing diamond wheels grinding steel, 450, 451, 452, 453, 454
testing, 451
grinding
abrasives, 189
deplating, 192
development, 188
diamond, 189
sintered carbide tool edge, 361, 362, 363, 364, 365, 366
electrochemical
mechanical balance
control, 191
correction, 191
processes, 189
hard carbides, research, 461
high voltage, 191
history, 188
mechanical contribution, 188, 189, 190, 191, 192, 193, 194, 195
over-etching, 192
process, diamond grinding tungsten carbide, 270
steel, 193
wheel
fast cutting, 192
run-out, 192
process affecting tool life, 363
Electron microscope examination of diamond ground ceramic cutting tools, 461
Electrostatic separator, 105
Elements, x-ray crystallography, 333
Engine
diamond honing, 486
testing in supersonic transport aircraft, 142
Enlargement in watch jewels, 21
Equipment
automatic diamond wheel dressing, 295
filling aerosol, 455
oil drilling, 374
optical
aerodynamic studies, 144, 145, 146, 147
wind tunnel testing, 146
Escalator in building, diamond sawing concrete, 369
Evaluating diamond circular saw blades cutting non-metallic materials, 107, 108, 109, 110, 111, 112, 113, 114
Examination
electron microscope of diamond ground ceramic cutting tools, 461
metallographic of superconducting tape, 495
Expansion of recording
discs, 310
tape, 310
Experiments with alum, sculpture, 329
Experimenting with honing materials, 486

F
Face of diamond wheel, cleaning
electrolytic, 454
mechanical, 454
Faceting
gemstones with Kemet, 496
machine for diamond tools, 57
Facing
commutators on semi-automatic lathe, 115
manufacture on diamond-tooled production line of wall
granite, 444, 445, 446, 447, 448, 449
marble, 444, 445, 446, 447, 448, 449
Factory, diamond tool in India, 250
Fast cutting wheels, electrolytic grinding, 192
Faulty runway surface, removing by diamond planing, 277
Feed, constant, diamond core drilling of automotive glass, 203
Ferrites, lapping, 496
Fibre glass
carbodies, trimming with airdriven diamond tools, 74, 75
lapping, optics, 496
reinforced plastics
casings, 96
machining with diamond tools, 94, 95, 96, 97
screens, 96
tubewell linings, 94, 95, 96, 97
Filling equipment, aerosol, 455
Film, diamond grinding metals, 186
Filtration unit, mobile increasing cutting oil life, 460
Fine
diamond powder
centrifugation, 63
contamination, 66
control, 60, 61, 62, 63, 64, 65, 66
quality, 65
grading method, 61
particle
measurement, 64
shape, 61

production, 60, 61, 62, 63, 64, 65, 66
sedimentation, 63
standards, 64
tests, 64
platinum wire, drawing with diamond dies for nitric acid production, 386
Finishing, diamond
bore of watch stone, 15, 16
tools, aluminium computer discs, 310, 311, 312, 313
Flank
diamond tool, grinding with metal bonded diamond impregnated wheel, 59
wear, tool, 365
Flaring cup wheel, Resimet, 505
Fluids
cutting
application, 210
selection, 210
grinding
application, 210
selection, 210
Fly-cutters, diamond
accuracy, 67
applications, 67
cutting
gears, 67, 68, 69
optical polygons, 67, 68, 69
ratchet wheel teeth, 68
machining high voltage supply unit
moulding, 156
precision, 295
Forces
bonding in unclad diamond grit, 405
grinding
measurement
effect of downfeeds, 404
incorrect wheel
balancing, 404
dressing, 404
research, dynamometer, 401, 402, 403, 404, 405
Form roller, diamond, 150
Formation
sculpture, crystals, 328
synthetic diamond, 376, 377
Fuel rods, lapping atomic, 494
Fume cupboards, leak-proof, making, 458, 459

G
Gang saw, diamond blades, 240
pendular, 241
Gauze, oxidation in nitric acid production, 286
Gears, cutting with diamond fly-cutters, 67, 68, 69
Gems
science, 120
standard catalogue, 296
Gemstones
diamond identifying, 326, 327
advantages, 327
Kemet
faceting, 496
polishing, 496
refractice index, measuring, 326
Generating machine, diamond, 118
Generation of heat, diamond grinding high speed steel, 461
Geometric structure of grinding wheel, 414
Geotechnical aspects of diamond machining of natural stone, 244
Glass
automotive, diamond core drilling, 203, 204, 205
constant
feed, 203
pressure, 203
sharpening drill, 204
technique, 203
components
machining
cutter, 24, 25
precision, 24, 25
diamond wheels
cutting, 24, 25
grinding, 24, 25
milling, 24, 25
polishing, 24, 25
slicing, 24, 25
diamond machining
seminar, 378, 379
synthetic, 333
-fiber reinforced plastic boat hulls, diamond trimming, 2, 3, 4, 5
fibre
carbodies trimming with airdriven diamond tools, 74, 75
optics, lapping, 496
reinforced plastics
casings, 96
machining with diamond tools, 94, 95, 96, 97
screens, 96
tubewell linings, 94, 95, 96, 97
hardened, plate diamond drilling, 459
machining with synthetic diamond, 26
Grading fine diamond powder, method, 61
Granite, 325
slabs, diamond
grinding, 447
polishing, 447
edges, 448
sizing, 447, 448
wall facings manufacture on diamond-tooled production line, 444, 445, 446, 447, 448, 449
Graphite, transformation of diamond into, 376, 377
Gratings, diffraction ruling with shaped diamond point, 226, 227, 228, 229
Grease, peelable for tool protection, 202
Grinding
combination of tungsten carbide and steel, 273
cylindrical of platelets, 9, 10
diamond
abrasives of cast iron, 406, 407
carbide test plates for x-ray investigation of residual stresses, 461
ceramic cutting tools for electron microscope examination, 461
ductile metals, 318, 319
abrasives, 406, 407
materials research, 270, 271, 272, 273, 274, 275
metals, film, 186
rock chip, 185
sintered carbide tool edge
electrolytic, 361, 362, 363, 364, 365, 366
mechanical, 361, 362, 363, 364, 365, 366
slabs
granite, 447
marble, 447
steel, 103, 318, 319, 450
abrasives, 406, 407
Demos, 266, 267, 268, 269
die, 274
grit, 202
high speed
heat generation, 461
temperature, 461
machine
efficiency, 267
stability, 267
wheel
loading, 267
problems, 230, 231, 232, 233
sound, 267
thin rock sections, 183
tool radii, 57, 59
tungsten carbide, electrolytic process, 270
dry
carbides, diamond
consumption research, 246, 247, 248, 249
metal bonded wheels, 249
Resimet bond increasing efficiency
cutter, 504, 505, 506, 507
tool, 504, 505, 506, 507
electrolytic
abrasives, 189
deplating, 192
development, 188
diamond, 189
electrochemical
mechanical balance
control, 191
correction, 191
processes, 189
hard carbides, research, 461
high voltage, 191
history, 188
mechanical contribution, 188, 189, 190, 191, 192, 193, 194, 195
over-etching, 192
process, diamond grinding of tungsten carbide, 270
steel, 193
wheels
fast cutting, 192
run-out, 192
fluids
application, 210
selection, 210
forces
measurements
downfeeds effect, 404
incorrect wheel
balancing, 404
dressing, 404
research, dynamometer, 401, 402, 403, 404, 405
glass components with diamond wheel, 24, 25
machine, universal cylindrical, 27
préparages, surface, 11
steel, 273
breakthrough, 318, 319
electrolytic dressing of diamond wheels, 450, 451, 452, 453, 454
testing, 451
mechanical, conventional, 453
temperature measuring with dynamometer, 401
tungsten carbide components, interrupted surface, 271
wheel
determining hardness, 404
diamond
abrasive for preparing, 270
effect of coolant, 104, 105
geometric structure, 414
life
cutter, 271
tool, 271
mechanical strength, 414
porosity, 414, 415
Grit
aggregate metallized diamond wheels, 247
diamond, 60
development, 102
distributors seminar, 287, 288, 289
grinding steel, 202

removing material, 17
synthetic
metal-clad, 10
parameters, 461
unclad bonding forces, 405
wear of single, 461
Grooves diamond, indenting on brass roller, 226, 227
Grooving, diamond
concrete highways, 502
tools of runways, 276
Growth of diamond whiskers, 70
Guide
lapping, 332
metrology, 332
Guitar strings, wire, diamond drawing, 196

H
Half-boules, cutting, 9
Hand-built sports car, 74, 75
Hard
carbides, electrolytic grinding research, 461
materials
abrasives, diamond
core drilling, 458
sawing, 458
lapping, 498
-to-machine steel, diamond honing, 461
Hardened glass plate, diamond drilling, 459
Hardness
abrasive
properties in natural stone affecting sawing, 321
slurry particles, 316
determining of grinding wheels, 404
testers, diamond, 150
Head, tape recorder, lapping, 495
Heat
generation in diamond grinding of high speed steel, 461
sink, diamond, 101, 332
Heating cables, electrical, laying by diamond cutting road, 503
High
level drilling with diamond drill bits, 293
speed steel diamond grinding
heat generation, 461
temperature, 461
thermal conductivity of diamond, 101
voltage
electrolytic grinding, 191
supply unit mouldings, machining with diamond
fly-cutter, 156
tools, 155
Highways, concrete diamond grooving, 502
Hip joints, artificial lapping, 496
History of electrolytic grinding, 188
Hole
clean by diamond drilling, 55
polish control in watch production, 18
Holed stone préparages, diamond production, 6
Holland, industrial diamond seminar, 200, 201
Hollowing watch jewels with diamond wheel, 21, 22
Hones, diamond
efficiency, 490
impregnated, 398, 399, 400
Honing
compound, 489
diamond
connecting rod, 490
development, 486, 487, 488, 489, 490
distributor pump
bore, 400
housing, 400
sleeve, 400
plate, 400
engines, 486
micron tolerances, 398, 399, 400
steel
hard-to-machine, 461
unhardened, 461
sticks, 486
value, 400
materials, experimenting, 486
single-stage, 489
synthetic diamond of steel, 461
two-stage techniques, 487
Housing of distributor pump, diamond honing, 400
Hypersonic wind tunnel liners, shaping with diamond tools, 144, 145, 146, 147

I
Identifying gemstones with diamond, 326, 327
advantages, 327
Impregnated diamond
cupwheel increasing thin rock sections output, 182, 183, 184, 185
hones, 398, 399, 400
tool, wear in ultrasonic machining, 314
wheel, metal bonded for grinding diamond tool flanks, 59
Incorrect wheel, grinding forces measurement
balancing, 404
dressing, 404
Increasing
cutting oil life by mobile filtration unit, 460
efficiency by dry grinding with Resimet bond
cutter, 504, 505, 506, 507
tool, 504, 505, 506, 507
life of resin bonded diamond wheels, 246
output of armature on diamond lathe, 206, 207
production by diamond sawing of stone blocks, 484
Indenting diamond grooves on brass roller, 226, 227
India, diamond tool factory, 250
Industrial
diamond
restoring ancient monument, 440, 441, 442, 443
revolution, conference, 76
seminar, Holland, 200, 201
dressing of stone, 443
production of ebauches, 12
progress, diamond key to, conference, 370, 371, 372, 373
Industry
building, diamond tools in, seminar, 72, 73
diamond, research, 98, 99, 100, 101, 102, 103, 104, 105, 106
jewellery, diamond
tool types, 359
tooling, 354, 355, 356, 357, 358, 359, 360
stone
diamond
tools
seminar, 243, 244, 245
surface set, development, 236, 237, 238, 239, 240, 241
tooling, surface set, 245
milling concept, 237
watch, diamond
tool types, 359
tooling, 354, 355, 356, 357, 358, 359, 360
Inspection
computer discs, 313
diamond
machining pistons
techniques, 278
tools, 280
worn, 281
tool cutting edge, 358
Installation
diamond drilling of sewage plant, 29
underground TV cable system, 30, 31
Interferometry study of microstructures of surfaces, 242
Internal diamond turning of wedding rings, 359
Investigation
site
bridge by diamond tools, 443
diamond core drills, 73
x-ray of residual stresses of diamond ground carbide test plates, 461
Iron, cast, grinding with diamond abrasives, 406, 407

J
Jewellery industry, diamond
tool types, 359
tooling, 354, 355, 356, 357, 358, 359, 360
Jewels, watch
brushing with diamond dust, 22
diamond
drilling, 19, 21
lapping, 22
machining, 19, 20, 21, 22
ovalling, 22
enlargement, 21
hollowing with diamond wheel, 21, 22
laser drilling, 19, 21
machining processes, 19
polishing, 22
production, 6, 7, 8, 9, 10, 11
turning with diamond wheel, 21
Joint, concrete contraction on motorway, diamond sawing, 367

K
Kemet
faceting gemstones, 496
laps
applications, 494
development, 491
diamond compound lapping copper, problems, 317
physical characteristics, 492
polishing gemstones, 496
Key to industrial progress, diamond, conference, 370, 371, 372, 373
Knives, steel microtome, lapping, 496

L
Laminated plastics, cutting with diamond saw, 27
Land reclamation, 94, 95, 96, 97
Lapping
artificial hip joints, 496
atomic fuel rods, 494
bone sections, 496
composite materials, 491, 492, 493, 494, 495, 496, 497, 498, 499
compound
abrasive composition, 461
diamond, 491, 492, 493, 494, 495, 496, 497, 498, 499

Concorde power unit bearings, 152
copper with Kemet laps, problems, 317
diamond
alumina ceramic shaft seal rings, 413
preparation scaife, 357
rock chip, 185
tool cutting edge, 358
watch jewels, 22
ferrites, 496
glass fibre optics, 496
guide, 332
hard materials, 498
precision, developments, 119
steel with microtome knives, 496
tape recorder head, 495
Laps
Kemet
applications, 494
development, 491
diamond compound lapping copper, problems, 317
physical characteristics, 492
quality, 491
Laser
drilling watch jewels, 19, 21
quartz tubes
diamond polishing, 234
machining with diamond coated wire, 234, 235
Lathe
diamond increasing armature output, 206, 207
semi-automatic for facing commutators, 115
Laying electrical heating cables by diamond cutting roads, 503
Leakproof fume cupboards, making, 458, 459
Lecture on diamond in metalworking, 200
Life
cutting oil, increasing by mobile filtration unit, 460
diamond drill bits, 293
resin bonded diamond wheels, increasing, 246
sintered carbide tool edges, 361, 362, 363, 364, 365, 366
tool affected by electrolytic process, 363
wheel for grinding
cutter, 271
tool, 271
Lightweight portable diamond saw sawing
asphalt, 375
concrete, 375
Limestone, 325
Line, diamond-tooled production for manufacture of wall-facings
granite, 444, 445, 446, 447, 448, 449
marble, 444, 445, 446, 447, 448, 449
Liners, hypersonic wind tunnel, shaping with diamond tools, 144, 145, 146, 147
Lining, tubewells
corrosion, 94
glass fibre reinforced plastics, 94, 95, 96, 97
Liquid metals for wetting diamond, 409
Loading of diamond wheel when grinding steel, 267

M
Machine
accurate for diamond machining of computer discs, 313
book, 461
diamond grinding of steel
efficiency, 267
stability, 267
faceting diamond tools, 57
generating diamond, 118
pull-through die testing, 460
universal cylindrical grinding, 27
working diamond dies, 500
Machining
diamond, 26
aircraft control system servo-components, 159, 160, 161
brass rod
detail, 331
single point turning tool, 331
computer discs on accurate machine, 313
cutting tool, physical phenomena, 461
fly-cutter of high voltage supply unit mouldings, 156
glass seminar, 378, 379
natural stone, 320, 321, 322, 323, 324, 325
geotechnical aspects, 244
pistons
aluminium/silicon alloy, wear of single point tools, 278, 279, 280, 281, 282, 283, 284, 285
inspection
techniques, 278
tools, 280
worn, 281
parameters, 280
production tools, 281
tool types, 280
precision of glass components, 24, 25
sintered corundum, 461
synthetic
bearing stones
ruby, 12, 13, 14, 15, 16, 17, 18
sapphire, 12, 13, 14, 15, 16, 17, 18
glass, 26, 333
metal, 26, 333
tools
ceramic
beryllium oxide, 116, 117
tubes, 162, 163
glass fibre reinforced plastics, 94, 95, 96, 97
high voltage supply unit mouldings, 155
watch
cases, 360
jewels, 19, 20, 21, 22
wheels, tungsten carbide
parts, 153
tools, 153
glass components, cutter, 24, 25
metal models of wind tunnels with diamond
compound, 143
tools, 143
pipework with tungsten carbide cutting tools, 157, 158
processes in watch jewels, 19
quartz laser tubes with diamond coated wires, 234, 235
ultrasonic with diamond
impregnated tool, wear, 314
whole stone, 314, 315, 316
Macrotome, diamond, 295
Maintenance of diamond drill bits, 290, 291, 292, 293
Making
Concorde models with diamond tools, 143
diamond cut-off wheel, 7
electrical contacts to diamond, 408, 409, 410, 411, 412
leak-proof fume cupboards, 458, 459
Manufacture on diamond-tooled production line of wall facings
granite, 444, 445, 446, 447, 448, 449
marble, 444, 445, 446, 447, 448, 449
Manufacturing techniques of Resimet bonds, 505
Marble
slabs, diamond
grinding, 447
polishing, 447
edges, 448
sizing, 447, 448
wall facings, manufacture on diamond-tooled production line, 444, 445, 446, 447, 448, 449
Masonry cutting performance, testing, 114
Materials
diamond grinding, research, 270, 271, 272, 273, 274, 275
hard abrasive, diamond
core drilling, 458
sawing, 458
honing, experimenting, 486
lapping
composite, 491, 492, 493, 494, 495, 496, 497, 498, 499
hard, 498
non-metallic cutting with diamond circular saw blades, evaluating, 107, 108, 109, 110, 111, 112, 113, 114
removing with diamond grit, 17
Measurement
grinding forces
effect of downfeeds, 404
incorrect wheel
balancing, 404
dressing, 404
particle of fine diamond powder, 64
surface of sintered carbide tool edges, 361
temperature, 162, 163
Measuring
grinding temperature with dynamometer, 401
refractive index of gemstones, 326
Mechanical
cleaning of diamond wheel face, 454
conventional grinding of steel, 453
contribution in electrolytic grinding, 188, 189, 190, 191, 192, 193, 194, 195
diamond grinding of sintered carbide tool edges, 361, 362, 363, 364, 365, 366
metallographic polishing, 296
strength in grinding wheel, 414
Metal
bonded diamond wheel
dry grinding carbides, 249
impregnated for grinding diamond tool flanks, 59
-clad synthetic diamond grit, 10
diamond grinding
ductile, 318, 319
abrasives, 406, 407
film, 186
liquid for wetting diamond, 409
machining with synthetic diamonds, 26, 333
models of wind tunnels machining with diamond
compound, 143
tools, 143
reference book, 418
Metallized aggregate grit diamond wheels, 247
Metallographic
examination of superconducting tape, 495
mechanical polishing, 296

polisher with single diamond wheel, 275
Metalworking with diamond, lecture, 200
Method
bonding electrical contacts to diamond, 408, 409, 410, 411, 412
grading fine diamond powder, 61
Metrology guide, 332
Micro-dimensional diamond tools, 202
Micron tolerances in diamond honing, 398, 399, 400
Microscope, electron, examination of diamond ground ceramic cutting tools, 461
Microstructures of surfaces, interferometry study, 242
Microtome knives, steel lapping, 496
Milling
concept in stone industry, 237
diamond
cutter
decorative texturing of stone, 239
surface set design, 236
whole stone tools, 315
glass components with diamond wheel, 24, 25
Minerals, book, 242
Mining
book, 242
research of diamond, 105, 106
Mobile
filtration unit increasing cutting oil life, 460
saw with diamond blade for cutting concrete, 30, 31
Model
Concorde, making with diamond tools, 143
metal of wind tunnels, machining with diamond
compound, 143
tools, 143
Modernization of office block, diamond drilling, 368
Monument, ancient, restoring with industrial diamonds, 440, 441, 442, 443
Motorway
concrete contraction joint, diamond sawing, 367
diamond constructing, 416
Mouldings of high voltage supply unit, machining with diamond
fly-cutters, 156
tools, 155
Mounting, of rock chip, 185

N
Narrow bore wells, 94, 95, 96, 97
Natural
diamond compound, 457
stone
abrasive hardness properties affecting sawing, 321
absorption, 323
cutting performance testing, 114
diamond machining, 320, 321, 322, 323, 324, 325
geotechnical aspects, 244
porosity, 323
strength
crushing, 323
transverse, 323
Nitric acid production
catalyst, 286
drawing fine platinum wire with diamond dies, 286
oxidation gauze, 286
Non-metallic materials, cutting with diamond circular saw blades, evaluating, 107, 108, 109, 110, 111, 112, 113, 114

O
Office block modernization, diamond drilling, 368
Oil
cutting life increasing by mobile filtration unit, 460
drilling
diamond crowns, 332
equipment, 374
One-man drilling rig, 293
Operation, sewage plant, 28
Optical
crystallography, 120
equipment
aerodynamic studies, 144, 145, 146, 147
wind tunnel testing, 146
polygons cutting with diamond fly-cutters, 67, 68, 69
separator, 105
glass fibre lapping, 496
Orientation of diamond, 354
Origin of diamond sculpture, 328, 329, 330
Output
armature increasing on diamond lathe, 206, 207
thin rock sections increasing with diamond impregnated cupwheels, 182, 183, 184, 185
Ovalling diamond watch jewels, 22
Over-etching in electrolytic grinding, 192
Oxidation gauze in nitric acid production, 286
Oxide, beryllium ceramic, machining with diamond tools, 116, 117

P
Parameters
diamond machining pistons, 280
synthetic diamond grit, 461
Particles
abrasive slurry, hardness, 316
fine diamond powder
measurement, 64
shape, 61
Parts, tungsten carbide, machining with diamond wheels, 153
Passenger comfort in supersonic transport aircraft, 141
Peelable grease for tool protection, 202
Pendular diamond gang saw blades, 241
Performance testing when cutting
masonry, 114
natural stone, 114
refractories, 114
Physical
characteristics of Kemet laps, 492
phenomena when machining with diamond cutting tools, 461
Physics Conference, 250
Piles, concrete cutting with diamond saw, 501
Pipework
Concorde, 157, 158
machining with tungsten carbide cutting tools, 157, 158
Pistons
aluminium/silicon alloy machining with single point diamond tools, 278, 279, 280, 281, 282, 283, 284, 285
diamond machining
inspection
techniques, 278
tools, 280
worn, 281
parameters, 280
tool
production, 281
types, 280
Planer, concrete, diamond, 239
Planing, diamond, for removing faulty runway surface, 277
Plant
power in supersonic transport aircraft, 141
sewage
diamond drilling
installation, 29
restoring efficiency, 28, 29
operation, 28
Plastics
laminated, cutting with diamond saw, 27
reinforced
cutting with diamond saw, 27
glass-fibre
boat hulls, diamond trimming, 2, 3, 4, 5
casings, 96
machining with diamond tools, 94, 95, 96, 97
screens, 96
tubewell linings, 94, 95, 96, 97
Plate
hardened glass, diamond drilling, 459
sleeve in distributor pump, diamond honing, 400
Platelets
cylindrical grinding, 9, 10
diamond cutting, 9
Platinum
fine wire drawing with diamond dies, nitric acid production, 286
resistance thermometer, 162, 163
Point
shaped diamond for ruling diffraction gratings, 226, 227, 228, 229
single diamond tools wear when machining aluminium/silicon alloy pistons, 278, 279, 280, 281, 282, 283, 284, 285
Polisher, metallographic, with single diamond wheel, 375
Polishing
diamond
quartz laser tubes, 234
scaife, diamond powder behaviour, 462, 463
slabs
granite, 447
edges, 448
marble, 447
edges, 448
gemstones with Kemet, 496
glass components with diamond wheel, 24, 25
hole for control in watch production, 18
metallographic mechanical, 296
technique with wet scaife, 56, 57, 58, 59
watch jewels, 22
Polygons, optical, cutting with diamond fly-cutters, 67, 68, 69
Porosity
grinding wheels, 414, 415
natural stone, 323
Portable lightweight diamond saw sawing
asphalt, 375
concrete, 375
Powder
compacting presses, 500
diamond
behaviour on diamond polishing scaife, 462, 463

fine
centrifugation, 63
contamination, 66
control, 60, 61, 62, 63, 64, 65, 66
quality, 65
grading method, 61
particle
measurement, 64
shape, 61
production, 60, 61, 62, 63, 64, 65, 66
sedimentation, 63
standards, 64
tests, 64
setting, 374
watch production, 12, 13, 15
Power
plant in supersonic transport aircraft, 141
unit in Concorde, 148, 149, 150
bearings, 151, 152, 153
diamond dressing, 152
lapping with diamond compound, 152
Precision
analytical balances, 27
diamond
fly-cutter, 295
machining of glass components, 24, 25
lapping developments, 119
Préparages
diamond production, 6, 7, 8, 9, 10, 11
holed stone, 6
surface grinding, 11
Preparation of scaife by diamond lapping, 357
Preparing
brass rollers, 227
diamond abrasive grinding wheels, 270
Presses, for compacting powder, 500
Pressure, constant in diamond core drilling of automotive glass, 203
Prism, diamond in refractometer, 327
Problems
development, brass rod, 331
lapping copper with diamond compound on Kemet laps, 317
Procedures of setting diamond tools, 355
Process
electrolytic
affecting tool life, 363
grinding when diamond grinding tungsten carbide, 270
electrochemical in electrolytic grinding, 189
machining watch jewels, 19
Producing
rectifiers, costs 154, 155, 156
shaped diamond tools, 56, 57, 58, 59
Production
diamond
fine powder, 60, 61, 62, 63, 64, 65, 66
préparages, 6, 7, 8, 9, 10, 11
holed stone, 6
tools
rough surfaces, 148, 149, 150
shank, 355
increasing by diamond sawing of stone blocks, 484
industrial of ebauches, 12
line, diamond-tooled for manufacture of wall facings
granite, 444, 445, 446, 447, 448, 449
marble, 444, 445, 446, 447, 448, 449
nitric acid
catalyst, 286
drawing fine platinum wire with diamond dies, 286
oxidation gauze, 286
spherical surfaces, 115
thin rock sections, 183
diamond saw blades, 182
tools for diamond machining of pistons, 281
watch, 12
diamond powder, 12, 13, 15
hole polish control, 18
jewels, 6, 7, 8, 9, 10, 11
Productivity of diamond regrinding
cutters, 461
tools, 461
Progress, diamond key to industrial, Conference, 370, 371, 372, 373
Properties
abrasive hardness affecting sawing of natural stone, 321
types of stone, 325
Protection of tool by peelable grease, 202
Pull-through die testing machine, 460
Pump, diamond honing distributor
bore, 400
housing, 400
sleeve, 400
plate, 400

Q
Quality
control, 457
diamond, 354
fine powder, 65
laps, 491
sintered carbide tool edges, 361, 362, 363, 364, 365, 366
Quartz tubes
capillary, 234
laser
diamond polishing, 234
machining with diamond coated wires, 234, 235
Quartzite, 325

R
Radii of tools, diamond grinding, 57, 59
Rails, tram, removing by diamond sawing, 197, 198, 199
Ratchet wheel teeth, cutting with diamond fly-cutter, 68
Reclamation of land, 94, 95, 96, 97
Recorder head, tape, lapping, 495
Recording
discs, expansion, 310
tape
expansion, 310
switch, 311
Recovery of diamonds from the sea, 106
Rectifiers, production costs, 154, 155, 156
Reference book, metals, 418
Refractive index of gemstones, measuring, 326
Refractometer, 326
diamond prism, 327
Refractories, cutting performance testing, 114
Regrinding with diamond
cutters
economy, 461
productivity, 461
tools
economy, 461
productivity, 461
Reinforced plastics
cutting with diamond saw, 27
glass fibre
casings, 96
machining with diamond tools, 94, 95, 96, 97
screens, 96
tubewell linings, 94, 95, 96, 97
Removing
runway surface by diamond planing, 277
material with diamond grit, 17
tram rails by diamond sawing, 197, 198, 199
Replaceable rims on diamond wheels, 460
Research
consumption in diamond dry grinding of carbides, 246, 247, 248, 249
diamond
applied, 101
basic, 99
grinding materials, 270, 271, 272, 273, 274, 275
industry, 98, 99, 100, 101, 102, 103, 104, 105, 106
mining, 105, 106
grinding
electrolytic of hard carbides, 461
forces with dynamometer, 401, 402, 403, 404, 405
programme drilling with diamond drill bits, 293
Residual stresses in diamond grinding of carbide test plates, x-ray investigation, 461
Resimet
Bond
increasing efficiency in dry grinding
cutter, 504, 505, 506, 507
tool, 504, 505, 506, 507
manufacturing techniques, 505
flaring cup wheel, 505
Resin bonded diamond wheels increasing life, 246
Resistance
abrasion of diamond, 99
thermometers, platinum, 162, 163
wear in diamond wheels, 461
Restoring
ancient monuments with industrial diamonds, 440, 441, 442, 443
efficiency of sewage plant by diamond drilling, 28, 29
Revolution, industrial diamond, conference, 76
Rig, one-man drilling, 293
Rims, replaceable, on diamond wheels, 460
Rings
alumina ceramic shaft seal, diamond lapping, 413
wedding, internal diamond turning, 359
Roads, diamond cutting for laying electrical heating cables, 503
Rock
chip
diamond
grinding, 185
lapping, 185
mounting, 185
truing up, 185
thin sections
diamond grinding, 183
increasing output with diamond impregnated cupwheel, 182, 183, 184, 185
production, 183

diamond impregnated cupwheel, 182
types, classification, 320
Rods
atomic fuel, lapping, 494
brass
development problems, 331
diamond machining details, 331
machining with single-point diamond turning tool, 331
Roller
brass
diamond indenting of grooves, 226, 227
preparing, 227
diamond form, 150
Rough surfaces, production with diamond tools, 148, 149, 150
Roughness, surface on sintered carbide tool edge, 361
Ruby, synthetic bearing stone, diamond machining, 12, 13, 14, 15, 16, 17, 18
Ruling diffraction gratings with shaped diamond point, 226, 227, 228, 229
Runway
grooving with diamond tool, 276
faulty surface removed by diamond planing, 277

S
Sandstone, 325
Sapphire, synthetic bearing stones, diamond machining, 12, 13, 14, 15, 16, 17, 18
Saw
diamond
blades
circular, 240
cutting non-metallic materials, 107, 108, 109, 110, 111, 112, 113, 114
testing, 110, 111, 112
gang, 240
pendular, 241
production thin rock sections, 182
selection for sawing stone temple building, 484
cutting
asbestos, 27
concrete piles, 501
plastics
laminated, 27
reinforced, 27
lightweight portable for sawing
asphalt, 375
concrete, 375
sawing stone, 442
mobile cutting concrete with diamond blades, 30, 31
Sawing
diamond
chain of stone, 239
concrete for building escalator, 369
contraction joints in concrete motorway, 367
hard abrasive materials, 458
removing tram rails, 197, 198, 199
saw
lightweight portable
asphalt, 375
concrete, 375
selection of blades for stone temple building, 484
stone, 442
blocks increasing production, 484
temple building, 482, 483, 484, 485
natural stone affected by abrasive hardness properties, 321
Scaife
diamond polishing, behaviour with diamond powder, 462, 463
preparation with diamond lapping, 357
wet polishing techniques, 56, 57, 58, 59
Science of gems, 120
Screens, glass fibre reinforced plastics, 96
Scriber, diamond, 202
Sculpture
diamond
origin, 328, 329, 330
significance, 328, 329, 330
experiments with alum, 329
formation of crystal, 328
Sea, recovery of diamonds from, 106
Seals, ceramic, shaft
airtight, 413
alumina, diamond lapping of rings, 413
Sections
bone, lapping, 496
thin rock
diamond grinding, 183
increasing output with diamond impregnated cupwheels, 182, 183, 184, 185
production, 183
diamond impregnated cupwheel, 182
Sedimentation of fine diamond powder, 63
Selection
diamond saw blades for sawing stone temple building, 484
fluids
cutting, 210
grinding, 210
Semi-automatic lathe for facing commutators, 115
Semiconductor device, silicon cubes, 208, 209
Seminar
diamond
grit distributors, 287, 288, 289
machining glass, 378, 379
tools
building industry, 72, 73
stone industry, 243, 244, 245
industrial diamond, Holland, 200, 201
Separator
electrostatic, 105
optical, 105
Servo-components of aircraft control system, diamond machining, 159, 160, 161
Setting
powders for diamond, 374
procedures for diamond tools, 355
Sewage plant,
diamond drilling
installation, 29
restoring efficiency, 28, 29
operation, 28
Shaft, ceramic, seal
airtight, 413
rings, alumina diamond lapping, 413
Shank, production, diamond tool, 355
Shape of particles in fine diamond powder, 61
Shaped diamond
point ruling diffraction gratings, 226, 227, 228, 229
tools production, 56, 57, 58, 59
Shaping
air bearing components with diamond compound, 456, 457
hypersonic wind tunnel liners with diamond tools, 144, 145, 146, 147
Sharpening
drill for diamond core drilling of automotive glass, 204
tungsten carbide cutting tools with diamond wheels, 158
Significance of diamond sculpture, 328, 329, 330
Silicon
alloy/aluminium pistons, machining with single point diamond tools, wear, 278, 279, 280, 281, 282, 283, 284, 285
cubes for semiconductor devices, 208, 209
diamond slicing, 208, 209
Single
diamond
grit, wear, 461
wheel metallographic polisher, 375
point diamond tool
dressing, 150
turning for machining brass rods, 331
wear when machining aluminium/silicon alloy pistons, 278, 279, 280, 281, 282, 283, 284, 285
stage honing, 489
Sink, diamond heat, 101, 332
Sintered
carbide tool edges
diamond grinding
electrolytic, 361, 362, 363, 364, 365, 366
mechanical, 361, 362, 363, 364, 365, 366
life, 361, 362, 363, 364, 365, 366
quality, 361, 362, 363, 364, 365, 366
surface
measurement, 361
roughness, 361
corundum, diamond machining, 461
Site
bridge investigating with diamond tools, 443
investigation with diamond core drills, 73
Sizing, diamond, of slabs
granite, 447, 448
marble, 447, 448
Slabs
granite, diamond
grinding, 447
polishing, 447
edges, 448
sizing, 447, 448
marble, diamond
grinding, 447
polishing, 447
edges, 448
sizing, 447, 448
Slate, 325
Sleeve of distributor pump, diamond honing, 400
plate, 400
Slicing
diamond, of silicon, 208, 209
glass components with diamond wheels, 24, 25
Slurry, hardness of abrasive particles, 316
Sound of diamond wheels grinding steel, 267
Spherical surface production, 115
Sports cars, hand-built, 74, 75
Stability of machine for diamond grinding of steel, 267
Standard catalogue of gems, 296
Standards of diamond
drill, 374

fine powder, 64
Steel
diamond
grinding, 103, 318, 319, 450
abrasives, 406, 407
Demos, 266, 267, 268, 269
die, 274
grit, 202
high speed
generation, 461
temperature, 461
machine
efficiency, 267
stability, 267
wheels
loading, 267
problems, 230, 231, 232, 233
sound, 267
honing
hard-to-machine, 461
synthetic, 461
unhardened, 461
grinding, 273
breakthrough, 318, 319
conventional, mechanical, 453
electrolytic, 193
dressing diamond wheels, 450, 451, 452, 453, 454
testing, 451
lapping with microtome knives, 496
tungsten carbide combination, grinding, 273
turning with diamond tools, 461
Sticks, diamond honing, 486
Stone
blocks, increasing production by diamond sawing, 484
building temple, 484
decorative texturing with diamond milling cutter, 239
diamond
chain sawing, 239
whole
tools
advantages, 315
milling, 315
ultrasonic machining, 314, 315, 316
holed préparages, diamond production, 6
industrial dressing, 443
industry
diamond
surface set
tools, development, 236, 237, 238, 239, 240, 241
tooling, 245
tools, seminar, 243, 244, 245
milling concept, 237
natural
abrasive hardness properties affecting sawing, 321
absorption, 323
cutting performance testing, 114
diamond machining, 320, 321, 322, 323, 324, 325
geotechnical aspects, 244
porosity, 323
strength
crushing, 323
transverse, 323
sawing with diamond saw, 442
blades selection for temple building, 484
types, properties, 325
watch, diamond finishing bore, 15, 16
Stones
bearing, diamond machining of synthetic
ruby, 12, 13, 14, 15, 16, 17, 18
sapphire, 12, 13, 14, 15, 16, 17, 18
diamond, 60
Strategic diamond, 210
Strength
mechanical of grinding wheel, 414
natural stone
crushing, 323
transverse, 323
Stresses, residual, in carbide test plates during diamond grinding, x-ray investigation, 461
Strings, guitar, diamond drawing, 196
Structure
geometric of grinding wheel, 414
study of diamond surface, 242
Study
microstructures of surfaces by interferometry, 242
surface structure of diamond, 242
Superconducting tape, metallographic examination, 495
Supersonic transport aircraft, 138, 139, 140, 141, 142
passenger comfort, 141
power plant, 141
testing engine, 142
Supply unit mouldings, high voltage machining with diamond
fly-cutter, 156
tools, 155
Surface
diamond, 409
faulty runway, removing by diamond planing, 277
grinding of préparages, 11
interrupted of tungsten carbide components, grinding, 271
microstructures, interferometry study, 242
rough, production with diamond tools, 148, 149, 150
-set diamond
milling cutter design, 236
tooling in stone industry, 245
tools development in stone industry, 236, 237, 238, 239, 240, 241
sintered carbide tool edge
measurement, 361
roughness, 361
spherical, production, 115
structure, diamond study, 242
Switch, tape recording, 311
Synthetic
bearing stones, diamond machining
ruby, 12, 13, 14, 15, 16, 17, 18
sapphire, 12, 13, 14, 15, 16, 17, 18
diamond
formation, 376, 377
grit
metal-clad, 10
parameters, 461
honing steel, 461
machining
glass, 26, 333
metal, 26, 333
System
control servo-components of aircraft, diamond machining, 159, 160, 161
underground TV cable, installation, 30, 31

T
TV cable system, installing underground, 30, 31
Tape
recorder head, lapping, 495
recording
expansion, 310
switch, 311
superconducting for metallographic examination, 495
Techniques
diamond core drilling automotive glass, 203
honing two-stage, 487
inspection of diamond machining pistons, 278
manufacturing Resimet bonds, 505
polishing with wet scaife, 56, 57, 58, 59
Teeth, ratchet wheel cutting with diamond fly-cutter, 68
Temperature
diamond grinding high speed steel, 461
grinding, measuring dynamometer, 401
measurement, 162, 163
Temple building
diamond sawing, 482, 483, 484, 485
stone, 484
sawing with selection of diamond saw blades, 484
Test
diamond fine powder, 64
plates of carbide, diamond grinding for x-ray investigation, 461
Testers, diamond hardness, 150
Testing
diamond circular saw blades, 110, 111, 112
electrolytic dressing of diamond wheel when grinding steel, 451
steel, 451
engine of supersonic transport aircraft, 142
machine, die pull-through, 460
performance when cutting
masonry, 114
natural stone, 114
refractories, 114
wind tunnels, 144, 145, 146, 147
optical equipment, 146
Texturing, decorative, of stone with diamond milling cutter, 239
Thermal, high conductivity of diamond, 101
Thermohygrometer, 115
Thermometer, platinum resistance, 162, 163
Thin rock sections
diamond grinding, 183
increasing output with diamond impregnated cupwheels, 182, 183, 184, 185
production, 183
diamond saw blades, 182
Tolerances, micron, in diamond honing, 398, 399, 400
Tool
cutting
book, 461
ceramic, diamond grinding for electron microscope examination, 461
tungsten carbide
machining pipework, 157, 158
sharpening with diamond wheel, 158
diamond
airdriven for trimming glass fibre car bodies, 74, 75
angles, 355
building Concorde, 164
cutting
edge
inspection, 358
lapping, 358
machining, physical phenomena, 461
faceting machine, 57
factory in India, 250
finishing aluminium computer

discs, 310, 311, 312, 313
grinding
flanks with metal bonded diamond impregnated wheel, 59
radii, 57, 59
grooving runways, 276
impregnated, wear from ultrasonic machining, 314
industry
building, seminar, 72, 73
stone
seminar, 243, 244, 245
surface set development, 236, 237, 238, 239, 240, 241
investigating bridge site, 443
machining
ceramic
beryllium oxide, 116, 117
tubes, 162, 163
glass fibre reinforced plastics, 94, 95, 96, 97
high voltage supply unit mouldings, 155
metal models of wind tunnels, 143
pistons
inspection, 280
worn, 281
production, 281
types, 280
making Concorde model, 143
production
rough surfaces, 148, 149, 150
shank, 355
shaped, 56, 57, 58, 59
regrinding
economy, 461
productivity, 461
setting procedures, 355
shaping hypersonic wind tunnel liners, 144, 145, 146, 147
single point
turning for machining brass rod, 331
wear when machining aluminium/silicon alloy pistons, 278, 279, 280, 281, 282, 283, 284, 285
turning steel, 461
types in industry
jewellery, 359
watch, 359
whole stone
advantages, 315
milling, 315
dressing, single point diamond, 150
dry grinding, Resimet bond increasing efficiency, 504, 505, 506, 507
edges, sintered carbide
diamond grinding
electrolytic, 361, 362, 363, 364, 365, 366
mechanical, 361, 362, 363, 364, 365, 366
life, 361, 362, 363, 364, 365, 366
quality, 361, 362, 363, 364, 365, 366
surface
measurement, 361
roughness, 361
life
effect of electrolytic process, 363
grinding wheel, 271
micro-dimensional, 202
diamond, 202
protection, peelable grease, 202
tungsten carbide, machining with diamond wheel, 153
variety for construction of boat hulls, 5
wear of flank, 363
-Tooled, diamond production line for manufacture of wall facings
granite, 444, 445, 446, 447, 448, 449
marble, 444, 445, 446, 447, 448, 449
Tooling, diamond
industry
jewellery, 354, 355, 356, 357, 358, 359, 360
watch, 354, 355, 356, 357, 358, 359, 360
surface set in stone industry, 245
Tram rails, removing by diamond sawing, 197, 198, 199
Transformation of graphite into diamond, 376, 377
Transport aircraft, supersonic, 138, 139, 140, 141, 142
passenger comfort, 141
power plant, 141
testing engine, 142
Transverse strength of natural stone, 323
Trimming, diamond
boat hulls of reinforced glass fibre plastics, 2, 3, 4, 5
glass fibre car bodies with airdriven tools, 74, 75
Truing up rock chip, 185
Tubes
ceramic, machining with diamond tools, 162, 163
quartz
capillary, 234
laser
diamond polishing, 234
machining with diamond coated wires, 234, 235
Tubewells, 94, 95, 96, 97
linings,
corrosion, 94
glass fibre reinforced plastics, 94, 95, 96, 97
Tungsten carbide
components, interrupted surface grinding, 271
diamond grinding, electrolytic grinding process, 270
parts, machining with diamond wheels, 153
steel combination, grinding, 273
tools
cutting
machining pipework, 157, 158
sharpening with diamond wheels, 158
machining with diamond wheels, 153
Turning
diamond
internal of wedding rings, 359
single point tool for machining brass rods, 331
steel with diamond tools, 461
watch jewels with diamond wheel, 21
Two-stage honing techniques, 487
Types
diamond tool in industry
jewellery, 359
watch, 359
rock classification, 320
stone properties, 325
tool diamond machining of pistons, 280

U

Ultrasonic machining
wear of diamond impregnated tool, 314
whole stone diamonds, 314, 315, 316
Unclad diamond grit, bonding forces, 405
Underground TV cable system, installation, 30, 31
Unhardened steel, diamond honing, 461
Unit
mobile filtration increasing oil life, 460
power in Concorde, 148, 149, 150
bearings, 151, 152, 153
diamond dressing, 152
lapping with diamond compound, 152
supply mouldings, high voltage, machining with diamond
fly-cutter, 156
tools, 155
Universal cylindrical grinding machine, 27

V

VLS method, diamond whiskers, 70
Value of diamond honing, 400
Voltage, high
electrolytic grinding, 191
supply unit mouldings, machining with diamond
fly-cutter, 156
tools, 155

W

Wall facings, manufacture on diamond-tooled production line
granite, 444, 445, 446, 447, 448, 449
marble, 444, 445, 446, 447, 448, 449
Watch
cases, diamond machining, 360
industry, diamond
tool types, 359
tooling, 354, 355, 356, 357, 358, 359, 360
jewels
brushing with diamond dust, 22
diamond
drilling, 19, 21
lapping, 22
machining, 19, 20, 21, 22
ovalling, 22
enlargement, 21
hollowing with diamond wheel, 21, 22
laser drilling, 19, 21
machining processes, 19
polishing, 22
production, 6, 7, 8, 9, 10, 11
turning with diamond wheel, 21
production, 12
diamond powder, 12, 13, 15
hole polish control, 18
stone, diamond
drilling, 15
finishing bore, 15, 16
Water drainage, conduit, diamond drilling, 54, 55
Wear
diamond, 26, 99
single grit, 461
tool
impregnated in ultrasonic machining, 314
single-point for machining aluminium/silicon alloy pistons, 278, 279, 280, 281, 282, 283, 284, 285,
wheels, 26
characteristics, 461
resistance, 461
tool flank, 363
Wedding rings, diamond internal turning, 359
Wells, narrow bore, 94, 95, 96, 97
Wet scaife polishing techniques, 56, 57, 58, 59
Wetting diamond with liquid metals, 409
Wheel
diamond, 375

aggregate metallized grit, 247
cut-off, making, 7
face cleaning
  electrolytic, 454
  mechanical, 454
glass components
  cutting, 24, 25
  grinding, 24, 25
  milling, 24, 25
  polishing, 24, 25
  slicing, 24, 25
grinding
  dry of carbides with metal bonded, 249
  steel
    electrolytic dressing, 450, 451, 452, 453, 454
      testing, 451
    loading, 267
    problems, 230, 231, 232, 233
    sound, 267
hollowing watch jewels, 21, 22
impregnated metal bonded for grinding tool flanks, 59
machining tungsten carbide
  parts, 153
  tools, 153
replaceable rims, 460
resin bonded increasing life, 246
sharpening tungsten carbide cutting tools, 158
single on metallographic polisher, 375
turning watch jewels, 21
  wear, 26
    characteristics, 461
    resistance, 461
dressing equipment, automatic diamond, 295
efficiency affected by coolant additives, 271
grinding
  electrolytic fast cutting, 192
  hardness, determining, 404
  diamond, effect of coolant, 104, 105
  geometric structure, 414
  mechanical strength, 414
  porosity, 414, 415
  preparing with diamond abrasive, 270
life when grinding
  cutter, 271
  tool, 271
measurement grinding forces incorrect
  balancing, 404
  dressing, 404
ratchet teeth, cutting with diamond fly-cutter, 68
Resimet flaring cup, 505
run-out, electrolytic grinding, 192
Whiskers, diamond, 70, 250
  growth, 70
  VLS method, 70
Whole stone diamond
  tools
    advantages, 315
    milling, 315
  ultrasonic machining, 314, 315, 316
Wind tunnels
  building, 145
  hypersonic liners shaping with diamond tools, 144, 145, 146, 147
  metal models machining with diamond
    compound, 143
    tools, 143
  testing, 144, 145, 146, 147
    optical equipment, 146
  windows, 147
Windows
  boat, diamond cutting, 5
  wind tunnels, 147
Wire
  fine platinum for nitric acid production, drawing with diamond dies, 286
  guitar strings, diamond drawing, 196
Wires, diamond coated for machining quartz laser tubes, 234, 235
Working machine for diamond dies, 500
Worn tool inspection, diamond machining of pistons, 281

X
X-ray
  crystallography, elements, 333
  investigation of residual stresses in diamond ground carbide test plates, 461

Printed by KENION PRESS LTD., Slough, Bucks

Industrial Diamond Abstracts

Index January-December 1969

Authors' Index	2
Trade Name and Company Index	8
Key to Abstract Numbers	12

Industrial Diamond Abstracts

VOLUME 29 JANUARY to DECEMBER Nos. 338 to 349

General Notes: (1) individuals, societies, and institutions appear in the first part of the index, whilst commercial companies and trade names are listed in the second part. (2) Lists of new patents (section W) are not included. (3) Patentees from patent abstracts are indicated by an asterisk. (4) Abbreviated words *eg* St for Saint, Mc for Mac, appear in the alphabetical order of the full version. (5) Numbers given are abstract numbers: in order to locate in which issue a given abstract may be found a key is appended. (6) Abstract numbers in brackets are of 'internal' references, *ie* they are not authors of the articles or patents but are referred to in the text.

I D A AUTHOR INDEX

A

ASTME Tool Show, Chicago 1969 (T86)
Aachen Technical University, (F126)
Abbasov, I. K., L39
Abell, G. I., F290*
Abdulzade, A. M., L39
Abrasive Engineering, (F66)
Adamant Research Laboratory, A1
Adams, A. E., F218*
Adams, J. R., P16*, P27*
Adolfs, P., N104*
Affri, R., P3*, P41*
Ahlgren, A., M29*
Ahlström, F99*, F186*
Alekseef, G. I., P13
Alexander, G. B., B35*
All - Union Conference on the Mineralogical Thermobarometry and Geochemistry of Plutonic Mineral-forming Solutions, 3rd, (T85)
All-Union Institute for Prospecting Techniques (VITR(, (L22)
All-Union Lithological Conference, 80th, (T82)
All-Union Scientific Research Institute for the Synthesis of Mineral Raw Materials (VNIIMS), (A25), (A26), A32, A35, A71, (T85)
All-Union Scientific Research Institute for Abrasives and Grinding (VNIIASh), B26
Alloisio, G., M21*
Al'tschuler, L. V., B34
Alyushnikov, A. S., F48
American Society for Abrasive Methods, (F67)
Amero, J. J., B13*
Amrhein, H. G., F12, F160, F309
Anastassakis, E., A69
Andreev, V. V., F262
Anel'chik, D. E., F71
Annen, R., F188*
Annetts, B. C., G117*
Application of X-ray Analysis, Conference, (V14)
Arai, T., B6*
Arai, Y., G39
Arai, Yu., F81, F82
Aranovskii, M., T88
Ard, J. S., C38*
Argueso, L. M., D5*
Arnold, K. B., P10*
Arnold, P. S., P10*
Arnstein, H. R. F., B60
Artamonov, A. Ia., G23
Asan-Nuri, A. O., L6
Asselin, P. H. L., M5*
Asselin, R. R. M., M5*
Aström, A. O., L31*
Asztalos, I., R11
Atwater, R. M., F254*
Austin, B. L., M60*
Automotive Engineering, (E14)

B

Bachman, W. S., L34*
Backé, W., F257*
Backer, W. R., F149*
Baikalov, A. K., E59
Baker, A. L., P47*
Baker, D. A., E44*
Bakul, V. N., A54, C28, E59, (T72), T93
Balakshin, C. D., T12
Balsiger, H. E., F124*, F141*, F177*
Banerjee, J. K., F241
Barash, M., G43
Barberis, N., T70
Barker, A. J., D19
Barmin, B. P., D17
Barnes, K. C., M3*
Baron, G., L30*, L36*
Barragan, J., G77*
Barsanov, G. P., V4
Barsom, J. M., N39*
Bartalucci, B., F18
Bartenev, G. M., P45
Barthel, R., C82*
Barton, J. S., L11*
Basle Sample Fair, (F58)
Basset, J., T71*
Bassov, L. G., (V26)
Bastow, T. J., B37
Baukal, H. E., M23
Baumann Institute, Moscow, D31
Bazarov, L. Sh., T9
Beasley, G. A., N10*
Beauchet, J., E29*
Bechem, G., L27*
Becker, E.-A., F257*
Becker, H. J., P56
Beilina, L. V., C43
Belkin, M. Ya., D12
Bell, R. M., H9*, H16*, H25*, H28*
Bender, A., F240
Bennett, D. G., F59
Ber, A., G2
Berdichevskii, E. G., G109
Berezovskii, L. I., G97
Berg, G. W., A22
Bernard, M. J., D1
Berner, G. A., V10
Bettcher, L. A., F244*
Bilello, J. C., B64
Binns, D. B., B50
Biron, J. N., L5*
Black, T. W., T31
Blanpain, E., G94, H33
Blocher, D., N90
Bodenseher, H., S4*
Bodine Jr., A. G., M14*
Börner, R., V2
Boess, G., C75*
Boettcher, S. A., G29*, G30*, G47*, G48*, G64*, G88*, G105*
Bogdanov, V. V., B24*, C80*
Bogenschütz, A. F., G92
Bokii, G. B., A62
Bokshtein, S. Z., B56
Bondarenko, A. T., T81
Bonijoly, (G27)
Bonijoly, M., G89
Bonijoly, P., G112
Bonn University, Mineralogical & Petrological Institute, (T13)
Bonnefoy, J. R., N13*, N59*
Bonsall, E., L37
Borbat, A. A., G26
Borse, D., M12
Bosco, W., C34*
Bossinger, H., F64
Botha, B. J. R., T57
Bouchard, R. J., G3
Boucher, P., F25*
Boucheret, B., N47*
Bouygues, J., N48*
Bovenkerk, H. P., (A21), T96*
Bowden, F. P., B63
Boyd, C. A., K7*
Bradshaw, R., V15
Bragaw Jr, C. G., C5., C61*
Bramhall, J. M., F132*
Brandner, G., E9*
Brandt, M. O., N100*
Brayman, J., T40*
Breev, B. T., T41
Bricker, R. E., F255*
Bristol University, (C11)
Brno International Fair, 10th, (F92)
Brodskii, Yu. A., N8, N107
Bromberg, B. M., G99*
Brookes, K. J. A., B1, B51
Brooks, J. H., L47
Brossmann, R., J2
Brovkin, A. A., T84
Brown, C. C., L51*
Brunswick Technical University, Carola Wilhelmina, (V11)
Institute for Machine Tools & Production Engineering, (C68) (T5), (T15)
Brust, D., A2
Bruton, E. M., Q10

Bryan, J. B., T4
Buchner, S., C35
Buckley, D. H., B22
Bürger, H., F117*, F184*
Büttner, A., F90, F266, F283, F324, S24
Bulanov, V. Ya., F305
Bundy, F. P., (A21), A57*
Burbach, J., B44
Burdet, R., F226*
Burkhardt, H., P42*
Burls, J., T67
Burmistrov, Iu. A., L3
Burns, R., C1
Burrows, D. S., F174*
Busch, D. M., F208
Buswell, R. D., G127*
Butuzov, V. P., (T85)
Byron, J. P., C59*

C

CIRP *see* College-International-Research-Production (CIRP)
Cambridge Research Laboratories, US Air Force, A61
Campbell, R. F., P26
Carlson, A. C., F136*
Carr, R., G13*
Carter, R. G., F148*
Case Western Reserve University, (A19)
Castela, A., L30*, L36*
Cattin, J., F221*
Caveney, R. J., A1
Centre National de la Recherche Scientifique, N29*
Cerny, V., J16
Chabanc, R. A., G102*
Chadderdon, J., L16*
Chalkley, J. R., F75, H26
Champetier, L., F201
Charlade, J., D13*
Charlin, A. I., (V9)
Charvat, V. K., C48*, C63*
Chaumont, H. J., N31*, N69*
Chepovetskii, I. Kh., F319, G26, G93
Chiesa, P., M51*
Chilton, A. C., B62
Chistyakov, Yu. A., V19
Christensen, F. L., M40*
Clayton, J. E., E20*, E38*
Cleaver, D., B28*
Cliffe, D. R., V3
Coes Jr, L., F297*, F298*
College - International - Research - Production (CIRP), (T4), V27
Colmery Jr, B. H., P58*
Conradi, V., C79
Conradi, V. R., C66, C67
Constantinescu, D., L12*
Cook, D. E., M50*
Copeland, H. D., L9*
Corbex, L., F226*
Cotton, I. H., F74
Corley, W. G., H3*
Cowan, G. R., A48*
Cox, A. C., G84*
Cox, A. J., G117*
Cox, D. L., N98*
Crandon, H. D., S21*
Crocket, R. N., T61
Cronjäger, L., F235
Cross, R. C., C45*
Croucher, A. H., L50*
Croucher, B. J., L50*
Crowe, W. G., C70*
Crucean, S., L12*
Cruikshank, M. J., T2
CSIRO, P21
Cucuel, N. A., F242*
Cuntze, E. O., F211
Curn, F., C8*
Curry, N. A., C76*
Curtze, E. W., N39* N115*
Czubak, A. S., G108*

D

DATC *see* Diamond Abrasive Technology Centre
D'Alessandro, W. J., C71*
D'Asaro, L. A., A34
Dall, A. H., F229*
Daniel, D. W., C10*, C36*
Daniel, P., M31, N1
Daout, M., N36
Darbinyan, V., F274
Das, G., R12
Davis, J., N45*
Davydov, V. M., F273
Dawihl, W., R6*
Dawson, B., A18
Dawson, J. B., T55
Day, L., G18*
De Almeida Ferreiinha, E., G101*
De Beers Paris Conference: 'Diamond Machining—Factor of Progress', (E2), (E53), (E63), (F14), (F84), (G27)
De Beers Diamond Abrasive Technology Centre, (F302)
De Beers Geneva Seminar: 'Diamond Powders and Tools in Precision Industry', (D10), (D33), (J11), (N34), (N35), (N36), (T70)
De Carli, P. S., A84*
De Cat, W., M17
De la Hunty, L. F., L2
De la Taille, R., G56
Decneut, A., F143, F210
Degen, J., F32*, T39
Degtyarenko, N. S., F275
Delius, H., C62*
Demin, Yu. F., G110
Dempsey, E. J., M3*
Demyanyuk, F. S., V26
Denham, P., A24
Deryagin, B. V., A45, A77
Deshayes, J., N28*
Detorre, R. P., N80*
Deutsche Akademie der Wissenschaften zu Berlin, C56*, C82*
Diamond Abrasive Technology Centre (DATC), (F302)
Diamond Conference, University of Bristol, (C11)
Diamond Machining, Factor of Progress, De Beers Conference in Paris, (E2), (E53), (E63), (F14), (F84), (G27)
Diamond Powders and Tools in Precision Industry, Geneva Seminar, (D10), (D33), (J11), (N34), (N35), (N36), (T70)
Diamond Research Laboratory, F200, F208, F301, (T47), (T67)
Diamond in the Stone Industry, Gothenburg Conference, (M37)
Diamond Tools in the Building Industry, Hamburg Seminar, (M27)
Diamond Tools in the Stone Industry, London Conference, (M16), (M68)
Dickinson, S. K., A61
Doberitzch, H., F263, F282
Dörre, E., R6*
Doherty, A. E., R7
Donaldson, J. G., B21
Donets Physico-Technical Institute, Ukrainian Academy of Sciences, A70
Dooley, P. C., C90*
Doser, M., B36*, P28*
Dotson, R., C50
Drake, F. B., F270
Dreyfus, B. A., N13*, N59*
Droitcour, H. A., F328*
Drolyuk, L. B., L7
Duchaine, M. P. J., A53*
Dürr, H., F44
Duinker, S., S7*
Duke, B. W., H4*
Duke, M. B., G1
Dulin, F. H., C45*
Dulin, I. N., B57
Dunn, E. R., E34*, F98*, F121* F251*, F295*
Dunn, H., M55
Dunnington, B. W., C31*
Durman, T., M33*
Dyakov, A. G., T11
Dyment, J. C., A34
Dzhalilov, N. M., L44

E

Eckhardt, E., F256*
Eckstein, P., G69*
Eickmeier, E., N32*
Eiss Jr, N. S., F93
Eksperimentalny Nauchno-Isseldovatelsky Institut Metallorezhutschikh Stankov (ENIMS), S16*
Eliasson, O., F140*
Ellendman, M., C64
Elliott, J. F., P51*
Ellis, C. R., P47*
Ellis, M. P., H12*
Elsner, W., F8
Elze, J., V23
Emain, J., Q11*
Eppler, W., A59, A81
Ernst, F57, (F210)
Ernst, H., F232*
Ershov, T. V., D38
Estabrook, M. R., G16*, G17*, G100*, G103*, G118*
Etat Français, N47*
European Machine Tool Exhibition, Hanover, (F277)
European Machine Tool Exhibition, Paris, (F279)
European Machine Tool Exhibition, 11th, (E62)

F

Fabish, E. F., F135*
Fahrni, F., F137*
Farley, J. N., G29*, G64*, G105*
Farrar, R., G50
Favre, H., G20*
Fedoseev, D. V., A33
Feenstra, R., L26*
Fehr, M., P20*
Feinberg, D., R10
Feklichev, Ye. M., A27
Ferchland, H. W., F40*
Fersman Mineralogical Museum, A.E., (V4)
Fessel, P., M20*
Figiel, F. J., A23*, J6*
Filimonenko, V. N., B47
Filleau, P., F223*
Filonenko, N. E., B32
Finkelman, R. B., G1
Finn, I., M46*
Fishman, M. A., V5
Fitzpatrick, P., G68*
Flemming, R., F29*
Flid, M. D., F275
Flidlider, M. M., N22, N51

Flidlidyer, M. M. *see* **Flidlider, M. M.**
Flint, E. P., T42
Flohr Jr, W. P., F122*
Flower, R. A., P11*
Flowers, E. S., F176*
Forestek, C. W., C46*
Foster, W. H., P54
Fougere, A., N48*
Fourme, R., P15
Fragin, I. E., G110
Frank, W., P6*
Franke, G., F29*
Freeman, G. P., J3
Frehn, F., B65, F263, F282
Fricou, P., (E2), E53
Friese, G., F276
Fritsch, O., K13
Fuchs, H., C68, F6, V11
Fukao, I., F83
Funabashi, W., C84
Futergendler, S. I., A63, A64, B26

G

Gabrielli, G., F294*
Gado, P., R11
Gärtner, F., P44
Gagliardi, G. R., F182*
Galimberti, J. M., B39
Galkin, V. V., A50
Gallabert, P., N105*
Garcin, G., E29*
Gargi, R., M45
Garratt, G., N18
Garrett, W. R., L28*, L34*
Gaustad, J. E., A30
Gebel, I. D., F144
Gebel, K. M., F27*, F97*, F285*
Gedye, E., G11*
Geier, G., P47*
Geio, T., B8*
Geissler, J., S5*
Geneva Seminar, 'Diamond Powders and Tools in Precision Industry' (D10), (D33), (J11), (N34), (N35), (N36), (T70)
Gentry, R. S., G46*, G63*
Geological Survey of Canada, (G70)
Geological Museum, London, (N87)
German Gemmological Society Conference, (A58)
Gertsch, F., N35
Gervais, R. S., F291*
Giannelli, G., M34*, M48*
Gibb, F. S., F16
Gielisse, P. J., B36*, F318*, P28*
Gierden, E., N63*, N68*
Ginzburg, B. I., T95
Gitzen, W. H., J8*
Gjertsen, P. R., G102*
Gleave, L., D2*
Gluchowicz, G., E42*, E56*, F120*, F142*
Gnilusha, V. A., V9
Gocke, H., C82*
Goff, J. A., S32*
Gollop, A. H., M1
Golosov, I. P., (V26)
Gon'shakova, V. I., T52
Goodwin, R. J., L15*, L29*
Gormly, M. W., F68
Gostev, V. V., H20
Gosche, V., F288*
Gothenburg Conference, 'Diamond in the Stone Industry', (M37)
Grandchamp, F., C22*
Grandia, J., S11*
Granovskii, E. G., D31, G122
Gray, D. L., N27*, N62*
Grechus, G. K., N97*
Greenberg, D. K., G17*
Gridneva, I. V., P14
Grigorev, V. P., G97
Grits & Grinds, (F59), (F60)
Grobety, F., F190*
Grogan, A. F., D35
Grosvenor, D. E., F86
Grove, G. L., F229*
Gruhn, H.-H., K15
Gübelin, E., A60, A72, A75, J1
Gühring, K., F126, (F210)
Günther, K., N71
Gueva, I., G2
Gunn, C. B., T1, T24, T44
Gurin, F. V., (V26)

H

Haasis, G., G96
Habib, R., F118*, F296*
Hachisuka, T., B4
Hagelquist, L., C57
Hagemeyer, J. W., R5
Hager, H., C26, C83
Haggerty, W. A., F232*
Hahn, R. S., F53*, F247*
Haisch, R., F217*
Hall, (A21)
Hall, S., E55*
Hallen, D., C42*
Hallez, C. P., F56, F204
Hamada, Y., T26
Hamburg Seminar, 'Diamond Tools in the Building Industry', (M27)
Han, L. K., P58*
Hanle, E. W., F42
Hannay, J. B., (T42)
Hanover Technical University
Institute for Production & Chip Producing Machine Tools, (D4)
Institute for Production Technology & Chip Removal Machine Tools, (F235)
Hansfater, H., H29
Happel, W. E., F147*
Harada, M., E58
Harper, R. G., B3
Harris, J. W., A4, A5
Harris, P. G., T28
Harris, W. H., C51*, F246*
Harwood, C. F., J7
Hatch, D., F70
Hatcher, C. W., M19*, M71*
Hatfield, C., N16*
Hatstat, R. G., F33*, F187*
Hauck, J. C., (F303)
Hauri, H., T14
Hauser, A., F119*
Hawkes, J. H., C74*
Hayes, S. V., F94*
Heath, K. C. G., T78
Heck, K., F195*, H11
Heidenhain, J., P42*
Heidenreich, E., J10
Heijnis, J. W. Ij., F52*
Hemphill, J., N121
Hepworth, M. A., N49, N89
Heraud, J. P., F253*
Heywood, S. A., T91
High Pressure Physics & Chemistry Section, Moscow University, (A27)
Hilbig, G., J13
Hill, G. J., B27
Hillier, M. J., F241
Hinshaw, M. W., M30
Hoare, S. W., E39*
Hodson, C. M., N58*
Hoffman, A., S19
Hoffmann, G. T., N57*
Hoffmann, P., K14
Hofmann, K., F159
Hoglund, N., E57*
Hohenberger, J. H., C21*
Hohler, F. A., E21*, F33*
Holz, R., N108
Hooper, G. R., F214*, F327*
Hope, W. F., K10*
Hori, E., S31*
Hornung, A., F87, T89
Houck, J. C., F167
Howard, E. E., B29*
Hranicka, J., H34
Hughes, F., F165, F200, F258, F265, F301, F302
Hughes, F. H., F69
Hughes, L. J., G73*
Hukao, Y., P17*
Humbeck, J.-M., F204
Humenik, M., B66*, R2*, R13*
Hunt, R. T., P7
Hush, J. S., H6, N44, N54, N60, P53, T17

I

IDIB *see* **Industrial Diamond Information Bureau**
Ida, I., G7, G38
Iidzuka, K., P25, P55
Ilin, N. P., A66
Ilupin, I. P., T92
Ilupin, I. R., T3
Inazaki, I., F239
Industrial Diamond Information Bureau (IDIB), (T92)
Industrial Diamond Revolution, Conference, (C57), (G96), (H22)
Ingram, C., L10*
Inoue, K., H19*
Insolio, T. A., N80*
Institute for Machine Tools & Production Engineering, Technical University, Carola Wilhelmina, Brunswick, (T5), (T15)
Institute for Production & Chip Producing Machine Tools, Technical University, Hanover, (D4)
Institute of Production Technology & Chip Removal Machine Tools, Hanover Technical University, (F235)
Institute for Superhard Materials, Kiev, (C17), (C18), (C19), C28, C78, (E12), (F47), (F107), (F162), (G93), G114, T16, (T72), (T73)
Institute of Production Engineers, V25
Metrication Board, (V25)
International Machine Tool Exhibition, (F2)
Iokogava, E17
Iordache, D. C., L12*
Ippolitov, G. M., F88
Irkutsk University, A37
Irwin, B., Q4
Ishima, H., N99*
Ishizawa, S., S31*
Ishizuka, H., T8*, T46*, T58*
Iskovich, M. S., E12
Iversen, L., F183*
Ivlev, V. N., F166
Ivochkin, P. M., G85
Iwafune, Y., P40*
Iwamoto, S., B30*
Iwasa, T., F315

J

Jackson, R. M., P36*
Jakobson, A. V., G10*
James, K. W., F270
Janicot, C., N6, N92
Jarvi, R. E., C48*
Jellis, M., C53*, E33*
Jensen, J., T37

Jessup, W. F., F203
Johnson, R. L., B22
Johnston, G., P30
Jolivet, P., (F14), F84
Jones, D. B., L5*
Jones, E., F214*, F327*
Jones, J. B., K7*
Jones, W. T., F150*
Josinaga, Kh., T22
Jostan, J., B7*
Jürges, W., C16*
Juillerat, H., C33*, C72*, F134*, G78*, G82*
Jung, O., B48

K

Kabanov, A. N., S2
Kabanovskii, L. N., F162
Käser, A., D11*
Kalashnikov, Ya. A., A27
Kaliszer, H., F94*
Kaltschmidt, G., F191*
Kameras, B. M., P38*
Kaminskii, F. V., T45, T53, T80
Kammerer, A. W., L41*
Kammerer Jr, A. W., L41*
Kamsyuk, M. S., G122
Kamyszek, K., F161, N67
Kenevskii, Yu. L., H10
Kardysh, V. G., L25
Karklina, M. I., A31
Karlin, V. V., V20
Karsten, W., N106, N116
Karyuk, G. G., N43
Kassen, G., F158
Keen, D., D35
Keith, P. A., E22*
Kelly, J. B., N88
Kennedy, G. C., A73, T56
Kenyon, C. H., N15*
Keogh, C., F65
Kharada, M., E15, E18
Khar'kiv, A. D., T3
Khatelishvili, G. V., A64, (T85)
Kirscht, H., G83*
Kissling, R., F173*
Kistler, S. S., C92*
Klautsch, D. N., F43
Klein, A., F26*
Kleine, W., S24
Klemm, W., G35*
Klingler, E. A., R6*
Klipper, J., T38
Klockmann, F., (V17)
Kloger, P., C7*
Kluge, H. J., E9*
Klunker, F., M18
Kniazev, Ju. A., N65
Knibbs, R. H., B61
Knupke, J. A., L17*
Koch, G., F24*
Koch, W., F221*
König, D., S5*
Kogan, L. S., A70
Kogosov, L. P., C17
Kohlhaas, E., B48
Kolesnichenko, G. A., C2, V8
Komorn, M. B., T40*
Kondo, G., G86*
Kondo, M., B6*
Konig, W., B11
Konno, H., B59
Koppenwallner, G., F245*
Kops, L., S26
Kopylov, V. Ye., L46, V19
Korfmann, W., M36*
Korn, S., G87*
Korshunov, B. S., F131, V7
Kotthaus, E., F31*
Koval'skii, A. Ye., B2
Kovalev, S. M., C19
Kovarik, K., C23*
Kozlovskii, Ye. A., L49
Krasnov, V. D., F106
Kraus, H., P42*
Krause, G., G83*
Krochmal, J. J., B38*
Krug, H., F55, F91, F199, F234*
Kruger, J. B., H27*
Kruglov, G. A., V18
Krumpholz, R., F128
Krylov, A. L., S12
Krylov, V. N., V20
Kubo, M., P9
Kubota, M., H5
Kubsh, L. M., C89*
Kucher, T. I., A46, A49, A70
Kudaka, K., B59
Kudin, A. K., G124
Kühr, J., C62*
Kuenstle, J. F., E10*, E49*
Kugoyarov, E. G., G6
Kuibyshev Polytechnic Institute, F305, F306
Kulischenko, W., G24
Kumagai, N., C6*, C44
Kumagai, S., F315
Kunkin, Ya. A., F320
Kuvykin, S. I., L42
Kuznetsov, A. M., (V26)
Kuznetsova, I. G., R1

L

La Boda, M. A., H18*
Lachapelle, R. L., C79*
Lagel, G., F231*
Lambert, M., N55*
Lamont, G., (T43)
Lamphere, J. K., L41*
Lang, E. U., K10*
Lanman, R. K., G120*
Larson, I. F., S29*
Larson, L., F45
Lauren, M., M42
Lauze, R. L., N38*
Lawrence, A. L., T21
Lawrence, D. E., T23
Le Fever, D., G4, G51
Lednov, P. S., F102
Lee, H. A., T23
Legge, P., S20*
Lehmann, D., F196*
Leibowitz, A., Q7*, Q8*
Leine, K. H., M2
Lenning, R. L., F103
Lenzen, G., T64, T68
Lepethuka, V. P., G8
Leuria, B., T20
Levin, A. A., A20
Levine, A. K., V12
Lieber, H.-H., V23
Lightowlers, E. C., A24
Lindner, P. H., T33
Lindström, O., J14*
Linholm, A. A. L., T25
Lipkins, M. S., N23*
Lipsett, F. R., P22
Lisini, G. G., F63
Litvin, Yu. A., A32, A71
Lockwood, G. H., E40*
Löns, H. H., A39, T49
Loftus, W. K. B., T60
Loiselle, A. A., C81*
Loladze, T. N., A38, T7
Lomonosov State University, M.V., A27
London Geological Museum, (N87)
London Seminar, 'Production Grinding with Diamond', (F10), (F75)
London Seminar, 'Diamond Tools in the Stone Industry', (M68)
Loofboro, V. L., E34*
Looman, J., E47
Loseva, L. E., A66
Lovekin, B. W., H14*
Lowen, J., G106*
Lucas, L., F284*
Lueders, W. H., F113*
Lundblad, E., A74, J14*
Lundblad, E. G., C57
Lundell, S., M62
Lux, H., B7*
Lynch, C. T., B38*

M

MAMI (Moscow Automechanical Institute), (V26)
Mabey, D. H., M4*
McCoy, H. E., B45*
McDonald, C. A., G104*
Machine Tool & Production Technology Institute, Technical University of Brunswick, (C68)
Machinery, NY (T31)
McKee, K. H., B52
McKee, R. L., F66
McKenna, P. M., B12*, C37*
MacKenzie, R. V., F101
McLeod, C. R., G70
McNeil, A. L., P18*
McNeil, G. L., P18*
MacZura, G., J8*
Makhanov, A. M., F306
Malevanny, V. I., F104
Mallett, G. R., V14
Mameev, I. I., (V26)
Marechal, R. G. A., P23*
Mariani, T. L., A52*
Marinace, J. C., D23*, S11*
Markowski, S., F80
Markus, L. I., D30
Marles, T., P29
Maropis, N., K7*
Marsden, P., C12, N87, T18
Marshall, C. W., H4*
Marten, K.-H., F195*, H11
Marx, C., L8, M70
Masko, J., F67
Maslakovets, Yu. P., A31
Mason, R., T61
Mats, B. A., L48
Matthew, W., G28*
Mazur, R. G., G119*
Mazurkiewicz, F170
Mazzarelli, G. L., E65*
Mechetner, B. K., S16*
Mee, J. E., B54*
Meerson, G. A., B15
Meier, R., B46
Mellgren, K. E., M52
Merritt, H. E., E16*, E41*
Messerschmidt, S., F198*
Metrication Board, Institution of Production Engineers, (V25)
Metzger, L. H., M15*, M19*
Metzger, M. V., M71*
Meyer, R., F46
Micheletti, G. F., F7
Mikhalev, G. P., V6
Mikheyenko, V. I., T83
Mikoshiva, T., S31*
Miller, H. C., M15*, M71*
Mills, J. P., F331*
Mineralogical & Petrological Institute, Bonn University, (T13)
Miserocchi, H. F., P2*
Moberg, C. A., G32*
Modler, H., F230*
Möbius, H. G., F257*
Mögling, B., H17
Mohrenstein, A., F227*
Moissan, H., (A74)

Monasebian, A., N121
Monocrystals Research Institute, Turnov, A44
Moody, J. C., P39
Moore, A. W., B40
Moore, C. A., L18
Moore, S. C., L34*
Mora, A., C47*
Moreland, G. C., G113
Moscow Automechanical Institute (MAMI), (V26)
Moscow University, High Pressure Physics and Chemistry Section, (A27)
Moskowitz, D., B66*, R2*, R13*
Motinot, R., M7
Müller, A., N104*
Müller, T., F54*
Mukhin, E. M., V19
Murai, T., G72
Murata, Y., N118
Murphy, A. P., P18*
Muta, A., B8*
Mykkanen, P. J., R7
Mylewski, J., M36*

N

Nadezhdina, N. V., G125
Naerman, M. S., G85
Nagel, E., G49*
Nagel, P., G12*, G22*, G37*, G49*
Naidich, Yu. V., C2, V8
Nakamura, Y., N46*
Nakayama, V., L52*
National Physical Laboratory, (P48)
Nature, (B40)
Naumann, W., F29*
Naville, T., D10, D16, D33
Nazariev, V. N., N3*
Neill, D. L., P32*
Nelson, C. J., N15*
Nelson, M. E., N79*, P5*
Nenashev, N. I., T83
Nicolas, R., N48*
Nikiforov, G. A., D38
Nikitin, A. V., A21, A25, A35, A43
Niklaus, K., G19*
Nikol'skaya, I. V., A27
Nilsson, G., M53*
Nissen, W. I., F254*
Nixon, A. W., N74*, N124*
Nordlie, B. E., A73, T56
Norling, G. F., M67
Novikov, G. P., L49
Novosti Information Service, (A3)
Nühlen, H., F267
Nyqvist, G., M58

O

Oakes, A. C., N16*
Oakes, W. W., N16*
Odqvist, L., F140*
Oerlemans, J., D24, F209
Oganesyan, M., M8
Ogura, H., B30*
Ohsawa, M., B6*
Okamura, K., (F210), F314
Olasz, J. S., P36*
Opitz, H., B11, F85, (F126), (F210), H31, V21
Oran, A. A., T94
Orap, A. A., C28
Orlov, Yu. L., A27, (V4)
Orobinski, V. M., G98
Orrell, E. W., C1
Orsini, L., P43, P49
Osenberg, W., D4, F235
Osipov, P. F., L43
Otto, W., G74*
Ottoson, L., M57
Owen, P. D., C62*

P

PERA *see* Production Engineering Research Association
Pahlitzsch, G., C68, E48, E63, (F6), G111, N106, N116, S1, S9, T5, (T15)
Palka, V., F272
Palmer, E. W., P1
Panov, V. S., B15
Parapetti, N., E3*
Paris Seminar, (N6)
Paris De Beers Conference, 'Diamond Machining, Factor of Progress', (E2), (E53), (E63), (F14), (F84), (G27)
Parrella, A. T., F182*
Pasowicz, W. E., E50*
Pavlov, V. I., T76
Pavlov, V. V., G10*
Pekarek, J. L., L29*
Peklenik, J., P9
Pellegrini, B., S27
Per, A. G., D34
Pereira, O., L18
Perkins, A. J., G67*
Pernack, F., E30*
Perotti, G., F7
Perrett, C., M68
Persson, A., P46*
Persson, K. G. A., P19*
Perthen, J., P24*
Petrov, D. A., A47
Petrov, V. S., A55
Phillips, W. C., A56
Piccinino, L. J., C85
Pickel, J. B., D14*
Pierce, E. S., K5*
Pierrot, A., G121*
Pil-ganchuk, L., G5
Pillon, M., N105*
Piotrowski, L., E37, F259
Pirrello, L., E23
Pivovarov, L. Kh., B47
Platz, W., F333*
Plummer, N., G53
Podlazov, S. S., S17*
Pötschke, H., F205, F278
Pogodaev, K. N., A37
Pollock, C., F60
Polubelova, A. S., V20
Poluborarinov, D. N., R1
Pook, L. P., B43
Poole Jr, C. P., (V13)
Poole, J. P., N2
Pope, P. J., F20*, F329*
Popov, G. S., G98
Popper, P., B50
Potapov, S. V., T45, T53
Potopov, S. V. *see* Potapov, S. V.
Powell, J. E., N4*, N9*
Powell, J. W., F151*
Pratt, P. L., B49
Pratt, W. N., R3*
Price, R. E., F27*, F97*, F177*, F225*, F255*
Production Engineering Research Association (PERA), (G85), (G124), (P48), (T35), (T66)
Production Grinding with Diamond, London Seminar, (F10), (F75)
Prokhorchik, S. M., N111
Prokofiev, V. A., L22
Prokopchuk, V. J., V6
Prowse, D. H., M33*
Prudent, D. A., Q2*
Prudent, H. M., Q2*
Pruslin, G. Sh., N107

R

Raal, F. A., A68, C11, T47, (V8)
Rabinovich, E. S., G93
Rabinowicz, E., G44
Radcliffe, S. V., R12
Radtke, N. V., G81*
Rainier, D. M., J11
Raman, C. V., A67
Ramdohr, P., V17
Raphael, O. P., N93
Ratcliff Jr, H. L., N101*
Rauscher, G., S22
Rea, R. F., C45*
Reason, R. E., P16*, P27*
Reeka, D., F212
Reglabuto, I. A., R5
Rehling, E., F156, F202
Reichert, L. A., (V16)
Reichmuth, D. R., L20*
Rein, V. V., (V26)
Reinsch, H. H., F61
Reith, A., M56
Renker, H., F332*
Reppin, G., F139*
Rezhnik, V. A., V9
Rheinberger, P., C32*
Richter, H., G35*
Ridding, F. L., F74
Rigvall, B., M16
Rimmer, S. M., F115*
Rioux, J., N29*
Ripple, J. W., F167, (F303)
Ritter, E. L., F232*
Roberts, R. A., A65
Robillard, A. G., E26*, F220*, F330*
Roca Jr, R., T90
Rodewald, H. J., V1
Rodot, M., N29*
Rönsch, H., G87*
Roger, H., N114*
Rohr, A., G33*
Rohrer, E. H., F150*
Rolfe, A. G., C59*
Rolff, A., T33
Rollins, H. M., L34*
Roney, B. N., F197*
Ronzani, A., M41*
Rose, H. E., Q13*
Rosen, J. E., B49*, E10*
Rosfelder, A. M., L40*
Rouy, A. L. M. A., P31*
Rowley, D. S., L4*
Rowse, R. A., C81*
Rozhkov, I. S., T82, V6
Rozin, N. A., G10*
Ruban, F. G., C18, G97
Rubert, M. P., P37
Rudd, M. O., N10*, N12*, N14*, N123*
Rüger, G., J12
Rumpp, G., F73*
Rutt, R. D., F136*, F222*
Ruzicka, P., A44
Ryazanov, A. V., G109
Rybakov, V. A., F88
Rye, J. K., S10*
Ryzhov, B. V., T82

S

Sacco, R. M., C14*
Sacristan, F. Rey, F237
Sagarda, A. A., C28, D37, F107, F319, G26, G114
Saljé, E., (F6)
Sanderson, L., F78
Santinelli, E., N25*
Saravia, L. R., A2
Saslaw, W. C., A30
Sato, K., N46*
Saunders, R. J., C54*

Savage, E. G., F293*
Savoie, J. E., N98*
Savrasov, D. I., T81
Sawin, R. W., D3
Sawluk, W., F171
Sazhin, I. I., H15*
Scandinavian Stone Conference 1969, (A74), (M53), (M54), (M55), (M56), (M57), (M58), (M62), (M63)
Schanbacher, W., F252*
Schauer, K., F193*
Scheiding, J., N71
Schekulin, K., F317
Schimmel, G., F199
Schladitz, H. J., C9*, N64*
Schmidt, E. D. D., A15
Schmidt, H., F249*
Schmidt, R., E63
Schmidt, U., S7*
Schmidt, W., P50
Schmitt, R., E48
Schnabel, H. W., C41*
Schneck, S., N21
Schöpfer, H., E11*
Scholz, E., H31
Schreyer, W., T30
Schröcke, H., A58
Schütz, T., F39*
Schuhmacher, G., B58
Schultz, P., S18
Schulz, E. A., G34*
Schulze, K. H., F36*
Schuman, A., M28*
Schweizer, M., G22*
Scientific Research Institute for Stone & Silicate Products, (M8)
Scott, D., H23
Seal, M., J3, T29
Segurini, A., B66
Seitz, R., C76*
Semenov, Yu. H., F163
Semenov, Yu. N., C86, F47
Semko, M. F., F307
Semvonov, A. P., C29
Sermon, G. T., H3*
Shaldenkov, V. A., F219*
Shamshina, E. A., V6
Shapiro, I., B38*
Shchelkova, S. G., T84
Shcherbakova, M. Ya., A81
Shchukin, V. N., T11
Shifrin, G. A., S25*
Shigematsu, H., F280, F281
Shiozawa, M., B8*
Shirley, K. R., L16*
Shoemaker, F. O., C55*, F114*
Shulman, L. A., A78
Sicking, R. H., P4*
Sickle, V. C., C41*
Sieburg, R., F287*
Sikora, R., N67
Simms, G. E., M19*, M50*, M71*
Simonov, A. V., T50
Sims, D. L., L5*
Singer, H., C62*
Singer, K. E., B63
Sirota, N. N., V13
Sjöstrand, H. E., F37*
Skuse, P. K., F10
Slowik, J., F80
Smalley, I. J., C65
Smekens, R., M54
Smelyanskii, V. M., (V26)
Smith, R. E., F72*
Smorodinov, M. I., (V9)
Smudski, P. A., B18*
Snoeys, R., F143, F210
Sobolev, E. V., A26, A80, A81
Sobolev, N. V., T75, T79
Sogn, L. T., G107*
Sojka, W., F256*
Sokhor, M. I., B26
Sokolov, V. V., N110
Solano, J. J., M47*
Sover, Ya. I., G61
Soviet Geology, (T10), (T54)
Sowden, G. A., G63*
Speidel, H., F189*
Spielvogel, E., M56
Spiro, P., C27
Srail, R. C., C48*
Srebriansky, N., N19
Stade, G., F139*
Stähli, A., E11*
Ständer, H., F160, F309
Stanki i Instrument, (N19)
Steigerwald, K. H., S5*
Stein, H. A., C91*
Steinbeck, R., P12
Steinberg, I. V., B53*
Steinert, H., A17, T65
Steinmetz, K., M65, N40
Stepanenko, N. M., C78
Stepanov, I. S., T10, T62
Stettler, E., N34
Stevens, C., E14
Stiefel, A., F250*
Stiff, G. M., P21
Stoehr, F. G., H7
Stoko, H., G111
Stoliarov, A. M., M39*
Stone, S., N11*
Stoppacher, W., N28*
Stratemeyer, E., N37*
Straus Jr, H. L., C40*
Striepe, F., E4*
Strom, B. H., G81*
Strong, H. M., A42*, A51*
Strunz, H., V17
Suddarth, N27*, N62*
Sulc, V., P52
Sumner, A., F290*
Sunnen, J., G15*, G58*, G65*
Suto, T., F238
Sutton, D. E., F194*
Suzuki, Y., S31*
Svenska Stenindustries Forskningsinstitut, M58
Swan, R. J., G54
Sweeney, A. N., F185*
Swegen, H., D6
Szöke, B., E19
Szwarcman, M., D15*

T

Taeyaerts, J., D9, E7, E36
Takada, S., G52
Tarakanov, S. N., L19
Tarasov, L., F164, F168, F260
Tatarinov, V. S., A37
Teather, T. G., C36
Technical University, Aachen, (F126)
Technical University, Brunswick, Carola Wilhelmina, (V11)
  Institute for Machine Tools & Production Engineering, (T5), (T15)
  Machine Tool & Production Technology Institute, (C68)
Technical University, Hanover
  Institute for Production & Chip Producing Machine Tools, (D4)
  Institute for Production Technology & Chip Removal Machine Tools, (F235)
Temple, W. K., E44*
Thoden, J., N17
Thomas, F., E40*
Thomas, J. A., C39*
Thompson, D. S., B49
Thompson, E. A., F292*
Thompson, J. R., C15*
Thompson, K. S., N74*, N124*
Thompson, T., N89
Tiffin, C. V., C92*
Tillander, H., Q9, Q12
Timmer, W. F., C76*
Tiraspolsky, W., L30*, L36*
Tolansky, S., V22
Tolpygo, K. B., A70
Tookey, J. R., F135*
Torbilo, V. M., D30, (V26)
Total, B., L24*
Trayner, B. T., F27*
Treacy, C. S., D5*
Trent, E. M., B20
Tripp, W. C., N10*
Trofimov, V. S., T54
Trueb, L. F., A76
Tsinovskaya, Ye. P., G42
Tsofin, E. E., H1
Tsoutrellis, C. E., L21
Tsuba, Kh., F89
Tsujii, S., T32*
Tsvis, J. V., F219*
Tudor, E. C., S32*
Tullius, W., C16*
Tumanova, V. I., B33
Turksii, A. A., (T92)
Tyler, R. C., F72*
Tuytchev, J. V., G10*

U

UGIMA (Marble Association), (M6)
US Air Force Cambridge Research Laboratories, A61
US Atomic Energy Commission, F116*
USSR Academy of Science's
  Institute of Physical Chemistry, (A45)
  Institute of High Pressure Physics, (A27)
  Semiconductor Institute, A31
Udahl, S., M63
Uhtenwoldt, H. R., F33*
Ukrainian Academy of Sciences, Donets Physico-Technical Institute, A70
United States of America, B54*, C38*, L5*, N99*
  Secretary of the Navy, L40*
University of Bonn, Mineralogical & Petrological Institute, (T13)
University of Bristol, (C11)
University of Irkutsk, A37
University of Moscow, High Pressure Physics & Chemistry Section, (A27)
Ustyantsev, A. A., S16*
Uvarov, V. V., T73
Uzunyan, M. D., F307

V

VDI *see* Verein Deutscher Ingenieure
VITR *see* All-Union Institute for Prospecting Techniques
VNIIASh *see* All-Union Scientific Research Institute for Abrasives & Grinding
VNIIMS, VNIISMS *see* All-Union Scientific Research Institute for the Synthesis of Mineral Raw Materials
Valentine, A. P., B55
Valle, A., M44
van Geersdale, L. G., M22*
Van Lierde, W. T., F116*
Van Valkenburg, (P15)

Vardanyan, K., M8
Varekamp, D. C., T87
Vasilev, A. M., (V26)
Vasil'ev, V. G., H10
Vaupel, H., P33
Vdovykin, G. P., A66, A79
Verardi, M., F63
Verbeeth, J., K11, M26
Verein Deutscher Ingenieure (VDI), (T72)
Vereshchagin, L. F., A27
Verrill, J. F., P1
Vetter, T., S3
Vilelia, M., R9*
Vinogradov, A. P., A66
Visintin, A., P49
Visintin, P. I., P43
Visser, A., S1
Vogelsang, A., F38*
Volk, D., N103*, N122*
Volkov, A. T., A62
Vollman, W., E43*
Volokin, A. S., G9
Voronezh Polytechnic Institute, F304
Voronin, A. V., (V26)
Voter, R. C., C20*
Vsesojuzny Nauchno-Issledovatelsky Institute Novykh Stroitelnykh Materialov, M39*
Vulfson, E. K., R8

W

Wagner, H. J., F51*
Walsham, B. T., L45
Walter, E. L., N83*
Wapler, H., F323
Warner, P. D., N26*
Warrington, E. E., L14*
Watson, P. M. F., F41*
Waugh, A., C88*
Weber, I., H29
Wehner, G. O., N39*
Weinstein, A. J., P31*
Weinz, E. A., D22
Weinz, E. F., D22
Weis, H., F92
Weisel, B. W., E25*
Weiss, I., (F15)
Weiss, R. J., A56
Welsh, R. J., F109*
Wennicke, H. W., P33
Wentorf Jr, R. H., B5*
Wensler, R. J., H22
Wesel, P. E., N102*
Weston, R. T., F187*
Wetzel, T. A., S6*
White, A. D., L35*
Whitney, E. Dow, N118
Whittard, W. F., V15
Wiemann, H. J., M12
Wilke, K.-T., V16
Williams, L. A., H13
Williams, W. A., P35*
Williamson, J. B. P., P7
Wills, D. B., F13
Wilson, W. D., T74*
Winter, A. A., J5
Winter, E., F308
Wood, W., F70
Wooley, R. W., F28*
Woolwich Polytechnic, (N89)
Woronoff, A. M., N123*
Wright, I. F., J5
Wright, J. M., P10*
Wright, R. F., G66*, G128*
Wronski, A. S., B62
Wuttkowski, H., F62
Wylde, S. J., N96*

Y

Yahabe, Y., C93*
Yarnitsky, Y., Q6
Yasuriami, K., T59*
Yefimova, I. S., V20
Yoshikawa, H., F19
Yoshinaga, H., F125
Yufa, E. P., F307

Z

Zachek, J. P., M32*, M72*
Zaitsev, A. G., F304
Zakharchenko, A. I., T85
Zakharenko, I. P., F105, F321
Zalewski, H. M., Q3*
Zalud, C. A., C77*
Zapico, F., E52*
Zeise, G., F117*
Zeitlin, A., T40*
Zelenov, V. I., V5
Zhurakovskii, E. A., A36
Zimin, Yu. P., F104
Zine Jr, A. R., N102*
Zinn, C. A., F228*
Zolnikov, G. V., T34
Zorev, N. N., F43
Zubkov, V. M., T35, T66
Zvontsov, J. F., G41

I D A TRADE NAME AND COMPANY INDEX

A

AB Skånska Cementgjuteriet, M29*
Abwood Machine Tools Ltd, F148*
Accurate Diamond Tool Co, (D7), U2
Aeroprojects Inc, K7*
AG für industrielle Elektronik AGIE, F231*
Allied Chemical Corp, A23*, A52*, A83*, A84*, J6*
Alloy Works, Fabricated Metals Div, Porter Co Inc, (K2)
Aluminium Co of America, J8*
American Abrasive Co, B53*
American Enka Corp, F52*
American Insulator Corp, (F313)
American Optical Co, N100*, S21*
Ammco Tools Inc, F138*
Amplex Corp, (D25)
Argueso & Co Inc, M., D5*
Armorlite Lens Co, G120*
Armour & Co, C3*, C41*
Associated Engineering Group, (D35)
Associated Spring Corp, F115*, F242*
ASTROLOY, (R4)
Atlas Copco AB, G32*, (L49)
Auto Soler Co, F72*
Avco Corp, C15*
Avica Equipment Ltd, (F268)
A-Z International Tool Co, L16*

B

Baldwin Hardware Manufacturing Corp, (G4)
Balzer Patent- u Beteiligungs AG, C32*
Barnes Drill Co, G16*, G17*, G100*, G103*, G118*
Barogenics Inc, T40*
Basic Ceramics Inc, (N52)
Baumgold Industrial Diamonds Inc, (Q4)
Bausch & Lomb Inc, N57*
Bendix Corp, F197*
Benoist Berthiot, SA, N114*
Bettcher Industries Inc, F244*
Bielefelder Union Bruno-Koch-Maschinenfabrik, N32*
Bläsi, Maschinenfabrik, (F236)
BLOHM-HFS, (F271)
Bohler & Co AG, Gebr, B17*
Branson Instruments Inc, P2*, (P8)
Bremer Vulkan, Schiffbau u Maschinenfabrik, F299*
British Aircraft Co (Operating) Ltd, F28*
British Titan Products Co Ltd, B28*
Brookes (Oldbury) Ltd, G73*
Brown, Boveri & Co, AG, D11*, S4*
Brown Oil Tools Inc, L51*
BRUMEGA C.C. INTER-EXTER, (E27)
BUMPCUTTERS, (M65)
Burka-Kosmos GmbH, F39*
Burmah Oil Trading Ltd, G66*
Burroughs Corp, S29*
Buss AG, F173*

C

Cadral, SA, F181*, F190*
Camshaft Machine Co, E25*
Canadian Longyear Ltd, (L38)
Canon Camera Co (T26)
Carbond Corp, H3*
Carborundum Co, B18*, B29*, C58*, C87*, C90*, C91*, F136*, F215*, F222*, (F303), (N118)
Carborundum Co Ltd, U7
Carborundum-Werke GmbH, C42*
Carduro Hartmetall AG, C25*, F112*
CAV Co Ltd, (F65)
Centre Electronique Horloger SA, D8*
Centre National de la Recherche Scientifique, S13*
Centre de Recherches Scientifiques et Techniques de l'Industrie des Fabrications Métalliques, D15*
Centre de Recherches de Pont-à-Mousson, M61*
Centre Technique de l'Industrie Horlogère, B25*

Ceske Motocyklove Narodni Podnik, F216*
Chambers (Concessionaires) Ltd, Roy, (M10)
Champion Spark Plug Co, C45*
Chance Bros Ltd, N74*, N124*
Chase Brass & Copper Co, (D36)
Chemical Materials Div, Texas Instruments, (N70)
Chicago Pneumatic Tool Co, (F322)
Christensen Diamond Products Co, L4*, L24*, (L25), M4*, M40*, M60*, (M70)
Christensen Diamond Services (UK) Ltd, (M59)
Christensen, France, (M11)
Christensen Mining & Construction Division, U4
Churchill Machine Tool Co Ltd, F109*
CIMAT, SpA, E65*
Cincinnati Co, (F154)
CINCINNATI MICRO-CENTRIC, (F264)
Cincinnati Milling Machine Co, C52*, F232*, (H2)
Cindex Inc, (E54)
Citroën SA, André, G31*
Coburn Mfg Co Inc, M62*, N27*
COMBICUTTER, (N7)
Commissariat à l'Energie Atomique, D13*, F223*
CONCORDE, (D18), (D20), (D28), (F268), (N72), (N86)
Concrete Cutting Equipment Co, M3*
CONCRETE PLANER, (M70)
Concut Inc, M5*, M71*
CONCUT BUMPCUTTER, (M65)
Consolidated Mines Ltd, (T77)
CONTELYT, (H34)
Continental Can Co, E10*, E49*
Continental Oil Co, L17*, L20*
Cooper Industries Inc, P32*
Cope Allman International Engineering Division, Monninger Ltd, C.D., (N5)
Corning Glass Works, N15*, N24*, N102*
Coventry Gauge & Tool Co Ltd, C53*, E33*, E45*, E46*, (E61)
Craelius Co Ltd, (M31)
Craelius, (L25)
CRAELIUS DIABOR, (M52)
Crane Packing Co, G34*
Cross Manufacturing Co Ltd, G45*
Croucher Ltd, Antony H., L50*
Cutter Grinders Ltd, (E13)

D

Daran Products Inc, (N7), N33, (N50)
DE BEERS, (J11), (K11), (T43)
De Beers Consolidated Mines Ltd, (T60), (T63)
De Beers Industrial Diamond Division, (F312), (M6)
DE BEERS DXDA-MC, (F316)
DE BEERS RDA, (F69)
DE BEERS RDA-MC, (F69), (F265), (F301)
De Vlieg Machine Co, F185*
Delapena Honing Equipment Ltd, G84*, G117*
Denki Kagaku Kogyo Kabushiki Kaisha, B30*
Deutsche Edelstahlwerke AG, B16*, B19*
Deutsche ITT Industrie GmbH, C92*
Deutscher Verlag der Wissenschaften, VEB, (V16)
Dexco Corp, C51*, F246*
DIABOR, (M52)
Diaform Ltd, (E54)
DIAGRIT, (N120)
DIALIQUID (G90)
Diamant Boart, (L25)
Diamant Boart France, N48*
Diamant Boart SA, M22*
DIAMANT-NADEL-FLIESE, (E8)
DIAMANT-SPACHTEL, (G123)
DIAMANT-SPRAY, (G123)
Diamantwerkzeugfabrik Jakob Lach, (E1), (F4), (G123)
Diamond Applications Laboratory, General Electric Co, (F50)
Diamond Fabricators Inc, U5
DIAPLAST, (G90)
DIASTAR, (T16)
DIATUBE, (M2)
Diffraction Gratings & Optics Ltd, (P53)
Diskus Werke Frankfurt a/M, AG, F234*
Distillers Co (Carbon Dioxide) Ltd, C54*
Dohmen & Co, Otto, (F5)
Dominicus & Co, David, (M49)
Drilco Oil Tools Inc, L34*
Du Pont de Nemours & Co, E. I., A40*, A48*, B23*, B35*, C5*, C20*, C31*, C61*
DXDA-MC, (F316)
Dynamics Corp, R3*
Dunhill Ltd, Alfred, (N41)

E

Eagle Pencil Co, (T6)
ECS-Engineering Construction GmbH, F30*
'ECS' Engineering Construction Switzerland GmbH, F111*, F153*
Ednalite Corp, P31*
Ekco Electronics Ltd, (N72)
Electronics Semi-Conductor Corp, (F15)
Electro-Thermal Industries Inc, H9*
Elsner Verlagsgesellschaft, Otto, (V24)
Engis Ltd, (G54)
English Abrasives Corp Ltd, C59*
Ets Biebuyck, N78*
Etablissements Mac (Fabrique de Machines de Précision), F300*
EWAG AG, (F279)

F

Fabricated Metals Division, Alloy Works, Porter Co Inc, H. K., (K2), (K4)
Farrel Corp, F22*, F23*, F133*, F179*, F182*
FAWEM 68, (F156)
Feldmühle AG, R6*
FINIFORM, (E62)
Fletcher-Terry Co, N80*
Flexibox Ltd, G128*
Ford (France) SA, R13*
Ford Motor Co Ltd, B41*, (G25), R2*
Ford Werke AG, B66*
Fortuna-Werke Spezialmaschinenfabrik AG, (E62), (F85), F245*, (F277)
Fujikoshi Kozai Kogyo KK, B6*

G

GAZ-2L 'VOLGA', (G125)
General Electric Co, (A17), (A21), A42*, A51*, A57*, (A74), B5*, B36*, C49*, (J15), P28*, T96*
General Electric Co of New York Ltd, (N66)
General Electric, Diamond Application Laboratory, (F50)
General Electric, Turbine Department, (F49)
General Motors Corp, F40*, H18*
General Precision Systems Inc, P11*
Geoscience Instruments Corp, G126*
Gilbert, Ets, (M11)
Gillette Co, D14*, F152*, F254*
Gillette Industries Ltd, F41*
Glass Research Laboratories, PPG Industries Inc, (N88)
Glaverbel, N55*
Gockel Maschinenfabrik GmbH, Gustav, G69*
Gorkii Automobile Factory, G125
Grind-All Tools Ltd, E20*, E38*
Gropptorps Marmor AB, M62
Guilhon et Barthelemy, M66*
Gulf Research & Development Co, L15*, L32*, L33*

H

Habit Diamond Tooling Ltd, (C36)
Hamilton Watch Co, P36*
Hammond Machinery Builders Inc, F194*, F228*, H9*, H16*, H25*, H28*, H35*
HARTEX, (F277)
Haulick-Pressen, (Q5)
Heald Machine Co, E21*, E26*, E40*, F33*, F53*, F146*, F172*, F178*, F187*, F220*, F247*, F330*
HEALD CENTRI-MATIC, (F264)
Henckels Zwillingswerk AG, J. A., F96*
Hey, Wolfgang, (Q1)
Hilger & Watts Ltd, (N18)
Hitachi Seisakusho, K. K., S31*
Hitco, (F70)
Hobson Ltd, H. M., F331*
HOFMANN, (F156), (F240)
Hoglund Engineering & Manufacturing Co, E57*
Holemaster Ltd, M55
Hommelwerke GmbH, F243*, F249*, F289*
Honsberg Gebr, D27*, F325*
Hughes Aircraft Co, S25*
Hughes Tool Co, L35*
HWF Hartmetall u Hartmetallwerkzeug-Fabrik Bayer-Müller GmbH & Co, B31*
HYDROMATIC, (M11)

I

IBM, Thomas Watson Research Center, (S14)
Ideal Carbide Die Co, (F17)
I.D.M. Electronics Ltd, (F269)
Illinois Tool Works Inc, F135*
Industrial Distributors (1946) Ltd, C60*
Industrial Distributors (Sales) Ltd, C69*
Industrial Nucleonics Corp, P58*
Injection Maintenance Ltd, G13*
Institut Francais du Pétrole des Carburants et Lubrifiants, L30*, L36*
International Business Machines Corp, S11*
International Equipment Co, (D26)
International Polaroid Corp, N113*
INVAR, (G42)
IRC Inc, N26*

J

Jakobsen Maskinfabrik AS, Svend, (F156)
Japan Petroleum Development Corp, L52*
Jetru Inc, N101*
Judelshon Inc, Oscar I., F95*
Jungner AB, (F278)

K

Kabushiki Kaisha Hitachi Seisakusho, B8*
Karlson Glass Works, (N20), (N117)
Karstens, (F277)
Kearney & Trecker Corp, S6*
KEMET, (G54)
Kennametal Inc, B12*, C37*
Kerry Ultrasonics Ltd, (S23)
Keuffel & Esser Co, P47*
Kharkov Unit Construction Machine Works, (G124)
Kirovograd Lathe Factory, (G97)
Klingelnberg Söhne, W. Ferd., F117*, F184*
Klöckner-Humboldt-Deutz, G57*
Kobe Steel Works Ltd, T59*
KOSMIS, (K11)
Krupp Motoren- u Kraftwagenfabriken, Fried., (H22)
Kubanya Lathe Works, (D19)

L

Lach, Jakob *see* Diamant-Werkzeugfabrik Jakob Lach
Lamb Co, F. J., S10*
Landis Tool Co, C89*, E34*, F27*, F97*, F98*, F113*, F121*, F122*, F124*, F141*, F147*, F177*, F225*, F251*, F255*, F285*, F295*
Lang SA, Louis, F221*
Lapointe Machine Tool Co Ltd, H21*, H30*
Lasserre et Fils, Noel, (NOLAF), (F130)
Lear Siegler Inc, C10*, E30*, E32*, G36*
Legrand SA, (N6), (N92)
Lexington Laboratories Inc, C88*
Libbey-Owens-Ford Glass Co, G80*, N83*
Lidköpings, (F277)
Lignes Télégraphiques et Télé phoniques, G121*
Lindner GmbH & Co, Herbert, F36*, F139*
Linsinger, Ernst, (F205)
Little, Arthur D., (T48)
LKB Produkter AB, P19*, P46*
LONSDALEITE, (A17)
LONGYEAR, (L25)
Lunette de Paris Inc, La, N28*

M

Maag-Zahnräder & Maschinen AG, F119*
Machine Tool Factory Prvomaiska, (F92)
Maier & Co, (P44)
Maier & Söhne, Unitas Maschinenfabrik OLG, Wilhelm, (F127)
MAN-MADE DIAMONDS, (J15)
Marcos Cars Ltd, (N54)
Maschinenfabrik Bläsi, (F236)
Maschinenfabrik Karl Hack KG, E24*, F189*
Maschinenfabrik Korfmann GmbH, M36*
MATRIX 66, (E61)
Matthey Bishop Inc, (K9)
Maunier Works, (M45)
Merritt & Co (Engineering) Ltd, E16*, E28*, E41*
Mesta Machine Co, F183*
Metabowerke KG Gloss, Rauch & Schnitzler, F73*
Metal Box Co, (F316)
Metalexport, (F92)
Metallurgical Service Laboratories Ltd, (G115)
METASERV, (G115)
Metronic Engineering Co, (D7)
Micromatic Hone Corp, G68*, G75*, G108*, H12*
Micron, Etablissement, F248*
Microrex SA, (F156)
Mid-West Abrasive Co, C70*
Ministeru Petrolului, L12*
MIRRA-LAP, (U3)
Monninger Ltd, C. D., Cope Allman International Engineering Division, (N5)
Montanwerke Walter GmbH, (F76)
Morris Inc, Philip, H27*
MSO Maschinen- und Schleifmittelwerke AG, F108*, F233*

N

NAGEL, (G93)
Neradi Narodni podnik, C8*
National Automatic Tool Co Inc, G104*
National Beryllia Inc, (N53), (N61)
National Development Corp, F94*
National Standard Co, K10*
Navan Products Inc, N38*
Naxos Union Schleifmittel- u Schleifmaschinenfabrik, F54*, F196*
NEF OPTIC, (F311)
Netherlands Tool Manufacturing Co, M35*
Newall Engineering Co Ltd, E39*, E44*
Nicro-Werk GmbH, C16*
NIEHOFF, (K9)
Nilsson & Söner, M53
Nippon Electric Co Ltd, N46*
NOLAF *see* Lasserre & Fils, Noel (NOLAF)
North American Rockwell Corp, B54*
Norton Co, B13*, C14*, C21*, C24*, C74*, C76*, C81*, F149*, F293*, F297*, F298*, (G93), H4*, H8*, M37, N75*, N76*, U6
NORTON P3, (F3)
Norton International Inc, F213
Novocherkassk Electric Vehicle Factory, (F104)

O

Oerlikon-Bührle Holding AG, F31*
Ohio Knife Co, E55*
OLIVER RECIPROMATIC, (F49)
OPTIDRESS, (E54)
Ordena Lenina Chelyabinsky Elektro-Metallurgichesky Kombinat, B42*
Osborn Manufacturing Co, C48*, C63*
Osoboe Konstruktorskoe Bjuro Po Proektirovaniju Sredstv Avtomatizatsii i Kontrolya i Elektroerozionnogo Oborudovania, S17*

P

Pels, Henry, (E5)
Philips Electronic & Associated Industries Ltd, N112*, S28*
Philips Gloeilampenfabrieken, NV, (K12), S7*, S8*
Piccinelli, Mario, (M49)
Pittsburgh Plate Glass Co, N16*, N115*
Pitzmann & Pfeiffer KG, C75*
Porter Co Inc, H. K., Alloy Works, Fabricated Metals Division, (K2), (K4)
PPG Industries Inc, N39*
  Glass Research Laboratories, (N88)
Pratt & Whitney, (P8)
  Machine Tool Division, R4
Precidia SA, (E2)
Precision Grinding Ltd, (E54)
Precision Hone Co, G102*
Pripart, SA, P34*
Proctor & Gamble Co, P18*
Production Tool Alloy Co Ltd, (H6)

R

RADKAT, (E13)
Rank Organisation Ltd, P16*, P27*, P59*, P60*
Rank Xerox Ltd, N94*
Ransome & Marles Bearing Co Ltd, (D18)
RDA-MC, (F301)
RECIPROMATIC, (F49)
Regie Nationale des Usines Renault, C30*
Reichhold Chemie AG, C62*
Renault Works, (G94)
Reul Granit AG, M54
Rheinische Ziehglas AG, N104*
Richards Foundries Ltd, (F278)
Rockwell Machine Tool Co Ltd, (E61)
Rolls-Royce Ltd, F174*, (N85)
Rolls-Royce (Composite Materials) Ltd, (N60)
Rosemount Engineering Co Ltd, (N86)
Rowland & Co Ltd, F. A., F290*
Ruston-Bucyrus Ltd, (T77)
RVG-D, (J15)

S

Saint-Gobain, Cie de, N31*, N69*, N95*, N105*
Samson Apparatebau AG, F257*
Scandiamant AB, J14*
SCHAUDT, (F157), (F277)
Schladitz-Whiskers AG, C9*, N64*
Schleifscheibenwerk Frankenwald
Seyfert & Co, Firma, M25*
SCHLIEREN METHOD, (D20)
Schmidt, A. H., (F5)
Schnellpressenfabrik König & Bauer AG, F193
Schöpfer & Stähli, E11*
Schumag Schmucher Metall-Werke GmbH, F288*
Secoblitz Industria Meccanica, SpA, M41*
SELFS, (H17)
Semiconductors Specialities Corp, (N84)
Semitron Ltd, (N91)
Setco Industries Inc, F51*
Sheffield Twist Drill & Steel Co Ltd, F123*, F132*
Shell Internationale Research Maatschappij NV, L26*
Sim SA, Ets, F326*
Simonds Abrasive Co, C39*, (C64)
SIMPLEX, (F271)
SKF Industries Inc, (F66)
Smit & Sons Inc, J. K., U3
Smit & Sons (Diamond Tools) Ltd, J. K., L23*
SMIT 'STA-TRU', J. K., (E60)
Société Alsacienne de Constructions Atomiques, de Télécommunications et d'Electronique Alcatel, F253*
Société Anonyme des Etablissements André Verger et Fils, F224*
SA des Verreries Réunies de Valle-Rhysthal and Portieux, N81*
Société Appro-Industrie, E52*, F192*
Société Boussois-Souchon-Neivesel, N82*
Société d'Electronique et d'Automatisme, N13*, N59*

Société d'Electro-Chimie, d'Electro-Métallurgie et des Aciéries Electriques d'Ugine, T51*
Société Génèvoise d'Instruments de Physique, F21*, F32*, (T39)
Société Gevelot, C73*
Société le Carbonde-Lorraine, C4*
Société des Lunetiers, Temkine & Cie, N30*, N56*
Société Nouvelle de Roulements, E29*, F226*
Société Nouvelle SPIDEM, F110*
Söding & Halbach, J. C., L27*
Soudure Electrique Languepin, La, S30*
Special Products Distributors Ltd, (F77)
Spectrum Diamonds (Pty) Ltd, Q7*, Q8*, Q14*
Speedfam Corp, G29*, G30*, G48*, (G60), G64*, G88*, G105*
Speedlap Corp, G47*
Spetsialnoe Konstruktorskoe Biuro 'Skbars', G99*
Spitfire Tool & Machine Co, G18*
Sprague Electric Co, G106*
Stahlwerke Südwestfalen AG, F180*
Star Industrial Tools Ltd, U1
STA-TRU, (E60)
Steigerwald GmbH, K. H., S5*
Studer Maschinenfabrik AG, Fritz, F332*
Sundstrand Corp, G67*
Supfina, Wieck & Hentzen, F175*, F299*, G14*, G21*
Super-Cut Inc, M13*, M15*, M19*
Svenska Diamantbergborrnings AB, (M57)
Svenska Kullagerfabriken, AB, G81*, G116*
Swift, Levick & Sons Ltd, (F11)
SWISH-CUT, (M10)
SZIM ORGANISATION, (D19)

T

Tacchella SpA, (F278)
Technoimpex, (F92)
TELO-UV-C, (T68)
Terratest AB, (M52)
Texas Instruments, Chemical Materials Division, (N70)
Textron Inc, N11*, N58*, N98*
Thiele Kaolin Co, L11*
Thompson Manufacturing Co, Earl A., F292*
Thomson-Houston-Hotchkiss-Brandt, Cie Francaise, N48*
Titan Abrasives Co, C55*, C77*, F114*
Tizon Chemical Corp, G79*
Tokyo Optical Co Ltd, P40*
Tokyo Shibaura Electric Co Ltd, A28*, A29*, A41*, P17*
Toledo Commutator Co, (B29)
Toolmaster Ltd, (C12)
TOS Celakovice np, C23*
Toshiba Tungaloy Co Ltd, T19*, T32*
Trend Industrial Equipment Ltd, (N42)
Triefus Industries Ltd, M33*
Triplex Safety Glass Co Ltd, N4*, N9*
Tudor Corp, S32*
TWIN-GRIP, (F154)
Tyrolit-Schleifmittelwerke Swarovski KG, C7*
TYSAMAN, U7

U

UK Atomic Energy Authority, S20*
Ulvsunda Verkstäder AB, E56*, F120*, F140*, F142*
Ulyanovsk Instrument Factory, (F162)
Union Carbide Corp, B45*, C13*, C71*, (F74)
Universal GmbH & KG, (F278)
Univis Inc, N10*, N12*, N14*, N73*, N123*
Urbanek & Co, J., (K1)

V

Vactric Control Equipment Ltd, (D28)
VEB Berliner Werkzeugmaschinenfabrik, P6*
VEB Deutscher Verlag der Wissenschaften, (V16)
VEB Elektromat, F34*
VEB Grossdrehmaschinen '7 Oktober', E9*, F191*
VEB Ifa-Karosseriewerke, F284*
VEB Maschinenfabrik John Schehr, F256*
VEB Mikromat Dresden, F29*
VEB Motorradwerk Zschopau, H24*
VEB Renak-Werke, G74*
VEB Werkzeugmaschinenfabrik Naumburg, G83*, G87*
Verger et Fils, Société Anonyme des Etablissements André, F224*
Vermont Marble Co, (M37)
Vianney, Ets. Joseph, (K3)
VOIT, (M7)
Volkswagenwerk AG, F195*
Vsesojuzny Nauchno-Issledovatelsky Institut Abrasivov i Shlifovania, B24*, C80*
Vsesoiuzny Nauchno-Issledovatelsky Instrumentalny Institut, F219*

W

Waldrich GmbH, H. A., F35*, F286*
Watson Research Centre, Thomas, IBM, (S14)
Weinz-WEKA-OHG, Ernst Fr., U8
Wenczler & Heidenhain, P42*
Wendt KG, Fritz, (H22), (H32), (H34)
Wernicke & Co, KG, N77*
Western Areas Gold Mining Co Ltd, (L1)
Western Electric Co Inc, N97*
Westinghouse Electric Corp, G119*
Westwind Turbines Ltd, F151*, (G53)
Wheel Trueing Tool Co, E64*
Wickman Machine Tool Sales Ltd, F218*, (G60)
Wickman Scrivener Ltd, (F100)
Wilkinson Sword Ltd, F20*, F329*, H14*
Wilmot Breeden Ltd, F214*, F327*
Winter & Sohn, Ernst, (E5), E8, (G90), (M7), M12
Wirtz, Jean, (G55)
Wylde Ltd, J. & S., N96*

Y

Yarker Ltd, Ken, (E6), (E31)
Yxhults Stone Cutting Works, (M42)

Z

Zahnradfabrik Friedrichshafen AG, E4*, E35*, E51*
Zeiss, Carl, (N109)
Zniitmash, (F92)
Zocca Works, (F145)
ZRAW Concern, (L25)

KEY TO ABSTRACTS—

PROPERTIES OF DIAMOND

Nos.	Pages	
A 1- 5	32	: January
A 6- 16	77	: February
A 17- 23	121	: March
A 24- 29	165	:April
A 30- 42	211-212	: May
A 43- 48	252	: June
A 49- 51	297	: July
A 52- 53	334	: August
A 54- 57	380	: September
A 58- 65	419	: October
A 66- 73	464	: November
A 74- 84	508-509	: December

PROPERTIES OF HARD MATERIALS

Nos.	Pages	
B 1- 8	32- 33	: January
B 9- 13	78	: February
B 14- 19	122	: March
B 20- 25	166	: April
B 26- 31	212-213	: May
B 32- 36	252-253	: June
B 37- 38	297	: July
B 39- 42	334-335	: August
B 43- 45	380-381	: September
B 46- 49	419-420	: October
B 50- 54	465	: November
B 55- 66	509	: December

TOOLMAKING TECHNIQUES

Nos.	Pages	
C 1- 10	33- 34	: January
C 11- 16	78- 79	: February
C 17- 25	122-123	: March
C 26- 34	166-167	: April
C 35- 42	213	: May
C 43- 48	253	: June
C 49	298	: July
C 50- 56	335-336	: August
C 57- 63	381	: September
C 64- 77	420-421	: October
C 78- 82	465-466	: November
C 83- 93	510-511	: December

MACHINING OF METALS

Nos.	Pages	
D 1- 2	34	: January
D 3	79	: February
D 4- 5	123-124	: March
D 6- 8	167	: April
D 9- 11	214	: May
D 12- 15	254	: June
D 16- 18	298	: July
D 19- 23	336	: August
D 24- 27	382	: September
D 28- 29	421-422	: October
D 30- 35	466	: November
D 36- 37	511	: December

TRUING AND DRESSING

Nos.	Pages	
E 1- 4	35	: January
E 5- 11	79- 80	: February
E 12- 16	124	: March
E 17- 22	168	: April
E 23- 26	214	: May
E 27- 29	254-255	: June
E 30	298	: July
E 31- 35	336-337	: August
E 36- 46	382-384	: September
E 47- 52	422-423	: October
E 53- 57	466-467	: November
E 58- 65	511-512	: December

GRINDING

Nos.	Pages	
F 1- 41	35- 40	: January
F 42- 54	80- 81	: February
F 55- 73	124-125	: March
F 74- 99	168, 170-171	: April
F 100-124	215-217	: May
F 125-142	255-257	: June
F 143-153	298-299	: July
F 154-198	338-343	: August
F 199-234	384-388	: September
F 235-257	423-427	: October
F 258-300	467-471	: November
F 301-333	512-515	: December

LAPPING, HONING AND POLISHING

Nos.	Pages	
G 1- 22	40- 43	: January
G 23- 37	81- 83	: February
G 38- 49	126-127	: March
G 50- 52	172	: April
G 53- 58	218	: May
G 59- 65	257	: June
G 66- 69	300-301	: July
G 70- 84	343-345	: August
G 85- 88	389	: September
G 89-108	427-429	: October
G 109-121	471-472	: November
G 122-128	515-516	: December

ELECTROLYTIC GRINDING

Nos.	Pages	
H 1- 4	43	: January
H 5- 9	83- 84	: February
H 10- 12	127	: March
H 13- 14	172	: April
H 15- 16	218	: May
H 17- 18	258	: June
H 19	301	: July
H 20- 21	345	: August
H 22- 25	389-390	: September
H 26- 28	429-430	: October
H 29- 30	473	: November
H 31- 35	516	: December

PRODUCTION, GRADING AND RECOVERY OF ABRASIVE PARTICLES

Nos.	Pages	
J 1- 2	43	: January
J 3	84	: February
J 4	128	: March
J 5	172	: April
J 6	218	: May
J 7- 8	258	: June
J 9- 10	301	: July
J 11	346	: August
J 12	390	: September
J 13	430	: October
J 14	473	: November
J 15- 16	516	: December

WIRE DRAWING

Nos.	Pages	
K 1- 2	84	: February
K 3	128	: March
K 4	172	: April
K 5	219	: May
K 6- 7	258	: June
K 8	301	: July
K 9	346	: August
K 10	390	: September
K 11- 12	430	: October
K 13- 14	473	: November
K 15	517	: December

ROCK DRILLING

Nos.	Pages	
L 1- 5	43- 44	: January
L 6- 12	84- 85	: February
L 13- 17	128-129	: March
L 18- 20	172	: April
L 21- 24	219	: May
L 25- 27	259	: June
L 28- 31	301-302	: July
L 32- 36	346-347	: August
L 37	390	: September
L 38- 41	430	: October
L 42- 45	473	: November
L 46- 52	517	: December

MACHINING OF STONE, CONCRETE, *Etc*

Nos.	Pages	
M 1- 5	44- 45	: January
M 6- 15	85- 86	: February
M 16- 22	129-130	: March
M 23- 25	174	: April
M 26- 29	219	: May
M 30- 36	259-260	: June
M 37- 41	302-303	: July
M 42- 48	347	: August
M 49- 51	391	: September
M 52- 61	431	: October
M 62- 66	474	: November
M 67- 72	517-518	: December

MACHINING OF GLASS, CERAMICS, *Etc*

Nos.	Pages	
N 1- 4	45- 46	: January
N 5- 16	86- 88	: February
N 17- 32	130-132	: March
N 37- 39	174	: April
N 40- 48	220	: May
N 49- 59	260-261	: June
N 60- 64	304	: July
N 65- 69	348	: August
N 70- 83	391-393	: September
N 84-105	432-434	: October
N 106-115	474-475	: November
N 116-124	518-519	: December

DIAMONDS IN INSTRUMENTS, HARDNESS, WEAR TESTING, AND PRECISION GAUGING

Nos.	Pages	
P 1- 6	46- 47	: January
P 7- 11	88	: February
P 12- 20	132-133	: March
P 21- 24	175	: April
P 25- 28	220-221	: May
P 29- 32	261-262	: June
P 33- 36	304-305	: July
P 37- 38	348	: August
P 39- 42	393-394	: September
P 43- 47	434	: October
P 48- 51	475-476	: November
P 52- 60	519-520	: December

GEM WORKING

Nos.	Pages	
Q 1- 2	47	: January
Q 3-	89	: February
Q 4- 5	133	: March
Q 6 7	175	: April
Q 8	221	: May
Q 9	262	: June
Q 10	305	: July
Q 11	348-349	: August
Q 12	434	: October
Q 13	476	: November
Q 14	520	: December

POWDER METALLURGY

Nos.	Pages	
R 1- 2	89	: February
R 3	133	: March
R 4- 6	175	: April
R 7- 8	221	: May
R 9	262	: June
R 10	305	: July
R 11- 12	349	: August
R 13	394	: September

MACHINING PROCESSES AND DEVELOPMENTS

Nos.	Pages	
S 1- 7	47- 48	: January
S 8	89	: February
S 9	134	: March
S 10	176	: April
S 11	221	: May
S 12- 13	262-263	: June
S 14- 16	305-306	: July
S 17	349	: August
S 18- 21	394	: September
S 22- 25	434-435	: October
S 26- 29	476	: November
S 30- 32	520-521	: December

MISCELLANEOUS

Nos.	Pages	
T 1- 8	48	: January
T 9- 19	89- 90	: February
T 20- 32	134	: March
T 33- 40	178	: April
T 41- 46	222	: May
T 47- 51	263	: June
T 52- 59	306-307	: July
T 60- 63	349	: August
T 64- 66	394-395	: September
T 67- 71	435	: October
T 72- 74	477	: November
T 75- 96	521-522	: December

TRADE LITERATURE

Nos.	Pages	
U 1	90	: February
U 2- 3	178	: April
U 4	349	: August
U 5	395	: September
U 6	436	: October
U 7	477	: November
U 8	522	: December

BOOK NOTICES

Nos.	Pages	
V 1- 9	49	: January
V 10- 13	91	: February
V 14- 16	135	: March
V 17- 20	178	: April
V 21	222	: May
V 22	264	: June
V 23- 24	350	: August
V 25	436	: October
V 26	477	: November
V 27	522	: December

PATENTS

Pages	
49- 51	: January
91- 92	: February
135-136	: March
178, 180	: April
222-223	: May
264	: June
307-308	: July
350-351	: August
395-396	: September
436-437	: October
477-478	: November
522-523	: December

Printed by KENION PRESS LTD., Slough, Bucks.